

PRODUCT
TECHNICAL DATA SHEETS



PRODUCT
TECHNICAL DATA SHEET

AWAZEL

REINFORCED SHEET MEMBRANES
CARRIERLESS MEMBRANES
SELF- ADHERING SHEET MEMBRANES
DRAINAGE & PROTECTION BOARDS
LIQUID MEMBRANES DAMPROOFING
LIQUID MEMBRANES WATERPROOFING
SUBSTRATE PRIMERS
GEOSYNTHETIC SHEET MEMBRANE
ADHESIVE COMPOUNDS
CONCRETE SURFACE TREATMENT
CONCRETE FOAMING AGENT
GEOTEXTILE FABRIC MEMBRANES
STRUCTURAL GROUTS & MORTARS
JOINT TREATMENT PRODUCTS
THERMAL INSULATION
INFRASTRUCTURE PROTECTION SYSTEMS

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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**REINFORCED
SHEET MEMBRANES**

S.B.S
MODIFIED



TABLE OF CONTENTS

TECHNICAL DATA SHEET

AWAZEL DIEN

High Performance SBS Modified Bitumen Waterproofing Membrane
Reinforced with Non-Woven Polyester
Compliance: ASTM D 6164, Type I & II, Grade S & G & SASO - ASTM D 6164M

DIEN 30,
DIEN 40, DIEN 40 M
DIEN 40 200, DIEN 40 200 M
DIEN 40 250, DIEN 40 250 M
DIEN 50 250, DIEN 50 250 M
DIEN 50 270, DIEN 50 270 M
DIEN 60 250, DIEN 60 250 M

Heat - Welded Waterproofing Sheet Membranes

REF: MNFG-AWDN-REG-0324-REV.01-0125

THIS PRODUCT

AWAZEL DIEN is a line of high quality elastomeric bituminous sheet membranes with substantial physical characteristics manufactured from a thoroughly disbursed blend of quality bitumen; plenteously modified with SBS (Styrene Butadiene Styrene) thermoplastic elastomer. The blend is reinforced with a non-woven polyester carrier that extends its high mechanical properties to the finished product. AWAZEL DIEN membranes are produced in different thicknesses and surface finish to suit the various applications of a waterproofing membranes in a high performance system, whether below-grade or on roofs whereby DIEN Plain is surfaced with a smooth Polyethylene film for covered applications whereas DIEN M is surfaced with UV resistant mineral slates for exposed applications.

USES & APPLICATIONS

- General vertical and horizontal waterproofing works in below-grade or above-grade applications.
- Tanking systems
- Basement waterproofing
- Roof waterproofing in an inverted roofing assembly.
- Skirting and final exposed layer in roofing assemblies (DIEN M)

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Rolls should be kept in an upright position in a properly ventilated and shaded storage area.
- Keep away from any source of flame.
- Avoid materials stacking

FEATURES & ADVANTAGES

- Superior Flexibility
- Durable and easy to apply
- Accommodates temperature fluctuations
- Remarkable resistance to aggressive attack of most salts and chemicals
- High tensile strength and elongation
- Excellent Puncture Resistance

TYPICAL INSTALLATION PROCEDURES

- AWAZEL DIEN can be installed in a single-ply or double-ply waterproofing assembly, loose-laid fashion, or fully bonded propane by torch welding.
- The substrate should be clean and free from debris, protrusions or other elements that may damage the membrane.
- Substrate must be primed by AWAZEL PRIMER D41 and allowed to dry.
- Side-laps should be 100 mm while end-laps should be 150 mm
- Use AWAZEL detailing accessories for internal, external corners and detail dressing.
- Torching should be done by skilled and trained labour and should be controlled to avoid excessive torching or burn up of the membrane.
- Avoid mishandling of membrane on-site to achieve the best results. Rolls should always be kept in an upright position.
- Refer to the method Statement for more information on installation procedures.

SHELF LIFE

- 18 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

AWAZEL DIEN

High Performance SBS Modified Bitumen Waterproofing Membrane
Reinforced with Non-Woven Polyester
Compliance: ASTM D 6164, Type I & II, Grade S & G & SASO - ASTM D 6164M

DIEN 30,
DIEN 40, DIEN 40 M
DIEN 40 200, DIEN 40 200 M
DIEN 40 250, DIEN 40 250 M
DIEN 50 250, DIEN 50 250 M
DIEN 50 270, DIEN 50 270 M
DIEN 60 250, DIEN 60 250 M

Heat - Welded Waterproofing Sheet Membranes

REF: MNFG-AWDN-REG-0324-REV.01-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUES							TEST METHOD				
	DIEN 30	DIEN 40 DIEN 40M	DIEN 40 200 DIEN 40 200M	DIEN 40 250 DIEN 40 250M	DIEN 50 250 DIEN 50 250M	DIEN 60 250 DIEN 60 250M	DIEN 50 270 DIEN 50 270M					
Softening Point (R&B), °C	>115							ASTM D 36				
Penetration at 25 °C, 0.1 mm	25 - 40							ASTM D 5				
Tensile strength, N/5 cm Longitudinal & Transverse	750 550	950 800	1000 800	1100 850	1100 900	1100 1000	1200 1000	ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 31				
Tensile strength, kN/m ASTM D 6164 requirement	Longitudinal Transverse	Type I ≥ 12.3	Type II ≥ 17.5					ASTM D 5147 ASTM D 146				
Tensile strength, kN/m, - 18 °C ASTM D 6164 requirement	Longitudinal Transverse	22 20	24 22					ASTM D 5147 ASTM D 146				
Elongation, % Longitudinal & Transverse	50 55						55 60	ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 31				
Elongation, %, -18 °C ASTM D 6164 requirement	Longitudinal Transverse	26 28						28 30				
Tear Resistance, N Longitudinal & Transverse	400 300	450 350	500 400	500 400	500 450	550 450	750 650	ASTM D 4073				
Tear Resistance, N ASTM D 6164 requirement	Longitudinal Transverse	Type I ≥ 246	Type II ≥ 311					ASTM D 4073				
Lap joint strength, N/5 cm Longitudinal & Transverse	750 550	950 800	1000 800	1100 850	1100 900	1100 1000	1200 1000	UEAtc M.O.A.T. 31 & 27				
Load Strain Product Longitudinal & Transverse	32,750 27,500	42,750 40,000	45,000 40,000	49,500 42,500	49,500 45,000	49,500 50,000	66,500 60,000	CGSB 37-GP 56 M				
Hydrostatic Pressure Resistance up to 7 bars	No Leakage							DIN 52123				
Cold flexibility at (-15) to (-20) °C	No Cracking							UEAtc M.O.A.T. 31				
Heat resistance at 100 °C	No Flowing							UEAtc M.O.A.T. 31				
Moisture Content (W.V.T.), %	≤ 1.0							ASTM E 96				
Water absorption (Grade S), %	≤ 0.12							ASTM D 5147 / D 570				
Puncture Resistance, N	600	700	850	1000	1000	1000	1300	ASTM E 154				
Static Puncture Resistance	L ₃ (15 Kg)			L ₄ (25 Kg)				UEAtc M.O.A.T. 27				
Dynamic Puncture Resistance	I ₃ (8-12mm indenter)			I ₄ (4-6mm indenter)				UEAtc M.O.A.T. 27				
Dimensional Stability, %	≤ 1.0							ASTM D 5147				
Resistance to Aging after 2000 hrs	No Deteriorations							ASTM D 4799				

NOTE: 1. The above values are nominal & subject to UEAtc tolerance; Tensile strength/Lap joint strength ± 20% / Elongation ± 15%

2. The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3. AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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High Performance SBS Modified Bitumen Waterproofing Membrane
Reinforced with Non-Woven Polyester

Compliance: ASTM D 6164, Type I & II, Grade S & G & SASO - ASTM D 6164M

DIEN 30,
DIEN 40, DIEN 40 M
DIEN 40 200, DIEN 40 200 M
DIEN 40 250, DIEN 40 250 M
DIEN 50 250, DIEN 50 250 M
DIEN 50 270, DIEN 50 270 M
DIEN 60 250, DIEN 60 250 M

Heat - Welded Waterproofing Sheet Membranes

REF: MNFG-AWDN-REG-0324-REV.01-0125

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUES							TEST METHOD	ACCEPTABLE TOLERANCE BY STANDRAD
	DIEN 30	DIEN 40 DIEN 40M	DIEN 40 200 DIEN 40 200M	DIEN 40 250 DIEN 40 250M	DIEN 50 250 DIEN 50 250M	DIEN 60 250 DIEN 60 250M	DIEN 50 270 DIEN 50 270M		
Roll size, m	10 x 1 m	10 x 1 m	10 x 1 m	10 x 1 m	8 x 1 m	8 x 1 m	8 x 1 m	ASTM D 5147	—
Thickness, mm	3.0	4.0	4.0	4.0	5.0	6.0	5.0	ASTM D 5147	± 5 - 10%
Unit weight (Plain), Kg/m ²	> 3.0	> 4.0	> 4.0	> 4.0	> 5.0	> 6.0	> 5.0	ASTM D 5147	± 10%
Unit weight (Mineral), Kg/m ²	—	> 4.5	> 4.5	> 4.5	> 5.5	> 6.5	> 5.5	ASTM D 5147	—
Selvedge width, mm	100							EN 13707: 2013	7.5 - 100 mm
Carrier (Polyester), g/m ²	160	180	200	250	250	250	270	UEAtc M.O.A.T. 31	± 15%
Coating Asphalt Type	SBS Modified Asphalt							—	—



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TECHNICAL DATA SHEET

MAIN COMPONENT OF AWAZEZBRIDGE SYSTEM

AWAZEZ PYGS

High Performance SBS Modified Bitumen Waterproofing Membrane
Reinforced with Double Carriers (Non-woven Polyester & Glass Fiber)
Compliance: ASTM D 6162, Type I & II, Grade S & SASO - ASTM D 6162M

PYG 40 S, PYG 40S M
PYG 40 200 S, PYG 40 200S M
PYG 40 250 S, PYG 40 250S M
PYG 50 S, PYG 50S M

Heat - Welded Waterproofing Sheet Membranes

REF: MNFG-AWPYGS-REG-0324-REV.01-0125

THIS PRODUCT

AWAZEZ PYGS is a line of high quality elastomeric bituminous sheet membranes with substantial physical characteristics manufactured from a thoroughly disbursed blend of quality bitumen; plenteously modified with SBS (Styrene Butadiene Styrene) thermoplastic elastomer. The blend is reinforced with a double reinforcement of non-woven polyester carrier and a fiberglass mat that extends its high mechanical properties to the finished product combining the advantages of high tensile strength and dimensional stability. PYGS membranes are supplied in different thickness and surface finish to suit project's requirements. PYGS membranes are surfaced with a smooth Polyethylene film for covered applications while PYGM membranes are surfaced with mineral slates for exposed applications.

USES & APPLICATIONS

General vertical and horizontal waterproofing works in below-grade or above-grade applications.

- Tanking systems
- Basement waterproofing
- Roof waterproofing in an inverted roofing assembly.
- Maybe used as a root barrier in light, short roots vegetation. Dense vegetation requires an additional layer of AWAZEZ DIMPLE SHEET, HDPE drainage board as the reliable root barrier.
- Bridge deck waterproofing under wearing course

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- 18 months when properly stored in original packaging as per storage & handling instructions.

FEATURES & ADVANTAGES

- Superior mechanical properties
- Superior elastomeric compound
- Superior Flexibility
- Durable and easy to apply
- Accommodates temperature fluctuations
- Remarkable resistance to aggressive attack of most salts and chemicals

TYPICAL INSTALLATION PROCEDURES

- AWAZEZ PYGS can be installed in a single-ply or double-ply waterproofing assembly, loose-laid fashion, or fully bonded propane by torch welding.
- The substrate should be clean and free from debris, protrusions or other elements that may damage the membrane.
- Substrate must be primed by AWAZEZ PRIMER D41 and allowed to dry.
- Side-laps should be 100 mm while end-laps should be 150 mm
- Use AWAZEZ detailing accessories for internal, external corners and detail dressing.
- Torching should be done by skilled and trained labour and should be controlled to avoid excessive torching or burn up of the membrane.
- Avoid mishandling of membrane on-site to achieve the best results. Rolls should always be kept in an upright position.
- Refer to the method Statement for more information on installation procedures.

STORAGE & HANDLING

- Rolls should be kept in an upright position in a properly ventilated and shaded storage area.
- Keep away from any source of flame.
- Avoid materials stacking



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TECHNICAL DATA SHEET

MAIN COMPONENT OF AWAZBRIDGE SYSTEM

AWAZEL PYGS

High Performance SBS Modified Bitumen Waterproofing Membrane
Reinforced with Double Carriers (Non-woven Polyester & Glass Fiber)
Compliance: ASTM D 6162, Type I & II, Grade S & SASO - ASTM D 6162M

PYG 40 S, PYG 40S M
PYG 40 200 S, PYG 40 200S M
PYG 40 250 S, PYG 40 250S M
PYG 50 S, PYG 50S M

Heat - Welded
Waterproofing Sheet Membranes

REF: MNFG-AWPYGS-REG-0324-REV.01-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUES				TEST METHOD				
	PYG 40 S PYG 40S M	PYG 40 200S PYG 40 200S M	PYG 40 250S PYG 40 250S M	PYG 50 S PYG 50S M					
Softening Point (R&B), °C	>115				ASTM D 36				
Penetration at 25 °C, 0.1 mm	30 - 45				ASTM D 5				
Tensile strength, N/5 cm	Longitudinal Transverse	1000 800	1100 1000	1200 1050	1200 1100	ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 31			
Tensile strength, kN/m ASTM D 6162 requirement	Longitudinal Transverse	Type I ≥ 13.1	Type II ≥ 21.9			ASTM D 5147 ASTM D 146			
Elongation, %	Longitudinal Transverse	45 50				ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 31			
Elongation, ASTM D 6162 requirement , Longitudinal & Transverse		≥ 2.0	≥ 4.0			ASTM D 5147 ASTM D 146			
Tear Resistance, N	Longitudinal Transverse	450 400	550 450	600 500	600 500	ASTM D 4073			
Lap joint strength, N/5 cm	Longitudinal Transverse	Same as membrane				UEAtc M.O.A.T. 30 & 27			
Load Strain Product	Longitudinal Transverse	45,000 40,000	49,500 50,000	54,000 52,500	54,000 55,000	CGSB 37-GP 56 M			
Hydrostatic Pressure Resistance up to 7 bars		No Leakage				DIN 52123			
Cold flexibility at (-15)°C to (-20)°C		No Cracking				UEAtc M.O.A.T. 31			
Cold Flexibility, ASTM D 6162 requirement		No Cracking at -18 °C				ASTM D 5147			
Heat resistance at 100 °C		No Flowing				UEAtc M.O.A.T. 31			
Moisture Content (W.V.T.), %		< 1.0				ASTM E 96			
Water absorption (Grade S), %		≤ 0.12				ASTM D 570			
Static Puncture Resistance		L ₃ (15 Kg)	L ₄ (25 Kg)			UEAtc M.O.A.T. 27			
Dynamic Puncture Resistance		I ₃ (8-12mm indenter)	I ₄ (4-6mm indenter)			UEAtc M.O.A.T. 27			
Dimensional Stability, %		≤ 1.0				ASTM D 5147			
Resistance to Aging after 2000 hrs		No Deteriorations				ASTM D 4799			

NOTE: 1. The above values are nominal & subject to UEAtc tolerance; Tensile strength/Lap joint strength ± 20% / Elongation ± 15%

2. The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZEL PYGS

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Reinforced with Double Carriers (Non-woven Polyester & Glass Fiber)
Compliance: ASTM D 6162, Type I & II, Grade S & SASO - ASTM D 6162M

PYG 40 S, PYG 40S M
PYG 40 200 S, PYG 40 200S M
PYG 40 250 S, PYG 40 250S M
PYG 50 S, PYG 50S M

Heat - Welded
Waterproofing Sheet Membranes

REF: MNFG-AWPYGS-REG-0324-REV.01-0125

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUES				TEST METHOD	ACCEPTABLE TOLERANCE BY STANDRAD
	PYG 40 S PYG 40S M	PYG 40 200S PYG 40 200S M	PYG 40 250S PYG 40 250S M	PYG 50S PYG 50S M		
Roll size, m	10 x 1 m	10 x 1 m	10 x 1 m	8 x 1 m	ASTM D 5147	—
Thickness, mm	4.0	4.0	4.0	5.0	ASTM D 5147	± 5 - 10%
Unit weight (Plain), Kg/m ²	> 4.0	> 4.0	> 4.0	> 5.0	ASTM D 5147	± 10%
Unit weight (Mineral), Kg/m ²	> 4.5	> 4.5	> 4.5	> 5.5	ASTM D 5147	± 10%
Carrier (Polyester), g/m ²	180	200	250	250	ASTM D 5147	± 15%
Selvedge width, mm	100				EN 13707: 2013	7.5 - 100 mm
Glass Fiber, g/m ²	50-60	50-60	50-60	50-60	UEAtc M.O.A.T. 31	± 15%
Coating Asphalt Type	SBS Modified Asphalt				—	—

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TECHNICAL DATA SHEET

AWAZEL PYL

High Quality SBS Modified Bitumen Waterproofing Membrane
Reinforced with Non-Woven Polyester

PY 30L,
PY 40L, PY 40LM
PY 40200L, PY 40200LM
PY 40250L, PY 40250LM
PY 50L, PY 50LM
PY 50200L, PY 50200LM
PY 50250L, PY 50250LM

Heat - Welded Waterproofing Sheet Membranes

REF: MNFG-PYL-REG-0324-REV.01-0125

THIS PRODUCT

AWAZEL PYL is a line of quality elastomeric bituminous sheet membranes with distinguished physical characteristics manufactured from a thoroughly disbursed blend of quality bitumen; plenteously modified with SBS (Styrene Butadiene Styrene) thermoplastic elastomer. The blend is reinforced with a non-woven polyester carrier that extends its high mechanical properties to the finished product. AWAZEL PYL membranes are produced in different thicknesses and surface finish to suit the various applications of a waterproofing membrane in a high-performance system, whether below-grade or on roofs whereby PYL Plain is surfaced with a smooth Polyethylene film for covered applications whereas PYL M is surfaced with UV resistant mineral slates for exposed applications.

USES & APPLICATIONS

- General vertical and horizontal waterproofing works in below-grade or above-grade applications.
- Tanking systems
- Basement waterproofing
- Roof waterproofing in an inverted roofing assembly.
- Skirting and final exposed layer in roofing assemblies (PYL M)

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Rolls should be kept in an upright position in a properly ventilated and shaded storage area.
- Keep away from any source of flame.
- Avoid materials stacking

FEATURES & ADVANTAGES

- Superior Flexibility
- Durable and easy to apply
- Accommodates temperature fluctuations
- Remarkable resistance to aggressive attack of most salts and chemicals
- High tensile strength and elongation
- Excellent Puncture Resistance
- Ideal for low temperature climate

TYPICAL INSTALLATION PROCEDURES

- AWAZEL PYL can be installed in a single-ply or double-ply waterproofing assembly, loose-laid fashion, or fully bonded propane by torch welding.
- The substrate should be clean and free from debris, protrusions or other elements that may damage the membrane.
- Substrate must be primed by AWAZEL PRIMER D41 and allowed to dry.
- Side-laps should be 100 mm while end-laps should be 150 mm
- Use AWAZEL detailing accessories for internal, external corners and detail dressing.
- Torching should be done by skilled and trained labour and should be controlled to avoid excessive torching or burn up of the membrane.
- Avoid mishandling of membrane on-site to achieve the best results. Rolls should always be kept in an upright position.
- Refer to the method Statement for more information on installation procedures.

SHELF LIFE

- 18 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

AWAZEL PYL

High Quality SBS Modified Bitumen Waterproofing Membrane
Reinforced with Non-Woven Polyester

PY 30L,
PY 40L, PY 40LM
PY 40200L, PY 40200LM
PY 40250L, PY 40250LM
PY 50L, PY 50LM
PY 50200L, PY 50200LM
PY 50250L, PY 50250LM

Heat - Welded Waterproofing Sheet Membranes

REF: MNFG-PYL-REG-0324-REV.01-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUES							TEST METHOD
	PY 30L	PY 40L PY 40LM	PY 40200L PY 40200LM	PY 40 250L PY 40 250LM	PY 50 180L PY 50 180LM	PY 50 200L PY 50 200LM	PY 50 250L PY 50250LM	
Softening Point (R&B), °C	120							ASTM D 36
Penetration at 25 °C, 0.1 mm	15 - 30							ASTM D 5
Tensile strength, N/5 cm Longitudinal & Transverse	650 450	750 600	800 650	900 700	800 650	850 700	950 800	ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 31
Elongation, % Longitudinal & Transverse	40 45							ASTM D 5147 ASTM D 146
Tear Resistance, N Longitudinal & Transverse	325 325	400 350	450 400	500 450	450 400	500 400	550 450	ASTM D 4073
Lap joint strength, N/5 cm Longitudinal & Transverse	Same as Membrane							UEAtc M.O.A.T. 30 & 27
Load Strain Product Longitudinal & Transverse	26,000 20,250	30,000 27,000	32,000 27,000	36,000 31,500	32,000 29,250	34,000 31,500	38,000 36,000	CGSB 37-GP 56 M
Hydrostatic Pressure Resistance up to 7 bars	No Leakage							DIN 52123
Cold flexibility at 0 to -5°C	No Cracking							UEAtc M.O.A.T. 31
Heat resistance at 120 °C	No Flowing							UEAtc M.O.A.T. 31
Water absorption (BSP), %	≤ 0.12							ASTM D 570
Static Puncture Resistance	L ₃ (15 Kg)							UEAtc M.O.A.T. 27
Dynamic Puncture Resistance	I ₃ (8-12mm indenter)							UEAtc M.O.A.T. 27
Moisture Content (W.V.T.), %	≤ 1.0							ASTM E 96
Dimensional Stability, %	≤ 1.0							ASTM D 5147

NOTE: 1. The above values are nominal & subject to UEAtc tolerance; Tensile strength/Lap joint strength ± 20% / Elongation ± 15%

2. The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3. AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUES							TEST METHOD	ACCEPTABLE TOLERANCE BY STANDRAD
	PY 30L	PY 40L PY 40LM	PY 40200L PY 40200LM	PY 40 250L PY 40 250LM	PY 50 180L PY 50 180LM	PY 50 200L PY 50 200LM	PY 50 250L PY 50250LM		
Roll size, m	10 x 1 m	10 x 1 m	10 x 1 m	10 x 1 m	8 x 1 m	8 x 1 m	8 x 1 m	ASTM D 5147	—
Thickness, mm	3.0	4.0	4.0	4.0	5.0	5.0	5.0	ASTM D 5147	± 10%
Unit weight (Plain), Kg/m ²	> 3.0	> 4.0	> 4.0	> 4.0	> 5.0	> 5.0	> 5.0	ASTM D 5147	± 10%
Unit weight (Mineral), Kg/m ²	—	> 4.5	> 4.5	> 4.5	> 5.5	> 5.5	> 5.5	ASTM D 5147	± 10%
Selvedge width, mm	100							EN 13707: 2013	7.5 - 100 mm
Carrier (Polyester), g/m ²	150-160	160-180	200	250	180	200	250	UEAtc M.O.A.T. 31	± 15%
Coating Asphalt Type	SBS Modified Asphalt							—	—



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المملكة العربية السعودية - الإمارات العربية المتحدة - الكويت - مصر

AWAZEBOND BS 1000

Proprietary, Blind-Side, Pre-Applied, Bonded to Structural Concrete Waterproofing Membrane

Pre-Applied, Bonded Waterproofing
System Membrane

REF: MNFG-AWBDBS1000-0224-REV.01-0125

THIS PRODUCT

AWAZEBOND BS 1000 is a proprietary Value-Engineering, high performance, pre-applied, bondable to structural concrete membrane. AWAZEBOND BS 1000 comprises a unique formula of self-healing SBS modified bitumen compound reinforced with a heavy duty and durable carrier that acts as a reinforcement to the membrane thus enhancing the mechanical properties required to enable the membrane to withstand the rough conditions at sites. AWAZEBOND BS 1000 saves time and cost at construction sites as it is fast and easy to install where the membrane is loose-laid over substrates and only the side and end-laps are thermofused. AWAZEBOND BS 1000 comes as a comprehensive, integral system-design to accommodate for all the critical detailing required for deep excavation, high hydrostatic pressure, and high water-table site conditions. The system design also provisions for the flexibility required in blind-side (no shoring) and conventional tanking (open shoring) plans.

USES & APPLICATIONS

- Horizontal and vertical blind-side substructure waterproofing where the structural design calls for a pre-applied application due to limitation of space and shoring.
- Conventional substructure tanking waterproofing.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water
- Keep rolls in an upright position
- Do not stack more than 2 pallets

FEATURES & ADVANTAGES

- Value engineering design (cost and time saving)
- Excellent durability
- Self-healing structure
- High resistance to chemicals presents in the soil
- High hydrostatic pressure resistance
- Inherent overlapping (no tapes or accessories required)
- Primer-less in pre-applied design except on detailing locations.
- Excellent dimensional stability
- Excellent impact resistance
- Excellent heat resistance
- Excellent adhesion to poured-in-place concrete (over 1000 N)

TYPICAL INSTALLATION PROCEDURES

- In horizontal application apply the "AWAZEBOND BS 1000" loose laid over the prepared substrate.
- Starting at wall/floor joint align the membrane properly with the wall and un-roll the roll to full extent.
- Re-roll the membrane after alignment and commence torching side-and end-laps provisioning for 100 mm side-lap and 150 mm end-lap while using a round nose trowel to create a perfect seam with the bead of bitumen.
- Stagger laps to avoid excessive layering. End laps of subsequent rolls shall be staggered by at least 300 mm.
- All angle changes, inside and outside corners, must be reinforced by installing an additional 300 mm cut-piece of "AWAZEBOND BS 1000" membrane fully heat-welded with a torch over primed substrate prior to the installation of field membrane.
- Under construction joints use AWAZEL TPE waterstop fully heat-welded onto the membrane surface, centered at the location of the joint.



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AWAZEBOND BS 1000

Proprietary, Blind-Side, Pre-Applied, Bonded to Structural Concrete Waterproofing Membrane

Pre-Applied, Bonded Waterproofing
System Membrane

REF: MNFG-AWBNDBS1000-0224-REV.01-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUE	TEST METHOD
Tensile strength at peak load, N/5 cm Longitudinal Transverse	1000 800	ASTM D 5147 ASTM D 146 UEAtc MOAT 31
Elongation, % Longitudinal Transverse	55 60	ASTM D 5147 ASTM D 146 UEAtc MOAT 31
Tear strength, N Longitudinal Transverse	500 400	ASTM D 4073
Adhesion to poured-in place-concrete, @ 22°C, N	> 3,500	ASTM D 903 modified (Peeled at 50 mm/min)
Puncture resistance, N	1,000 / 950	ASTM E154
Lap Joint strength	Same as membrane	ASTM D 5147
Water absorption @ 24 hours, % (Film side)	< 0.15	ASTM D 570
Resistance to hydrostatic pressure	7 Bar (70 m)	ASTM D 5385 / DIN 52123
Resistance to lateral water migration	No migration at 7 Bar (70 m)	ASTM D 5385 / DIN 52123
Low temperature flexibility, °C	(-20)	ASTM D 5147

NOTE: 1. The above values are nominal & subject to UEAtc tolerance; Tensile strength/Lap joint strength ± 20% / Elongation ± 15%

2. The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3. AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

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AWAZEBOND BS 1000

Blind-Side, Pre-Applied, Bonded to Structural Concrete Waterproofing Membrane

Pre-Applied, Bonded Waterproofing
System Membrane

REF: MNFG-AWBDBS1000-0224-REV.01-0125

ATTRIBUTE & PRESENTATION

ATTRIBUTE	RESULT	TEST METHOD	ACCEPTABLE TOLERANCE BY STANDRAD
Thickness	3.5 mm	—	± 5 - 10%
Roll length	10.0 m	—	—
Roll width	1.0 m	—	—
Roll weight	> 35 kg	—	—
Top Surface	Specially Treated Rough Minerals	—	—
Underface	Thermofusible HDPE Film	—	—
Selvedge	100 mm width selvedge covered with Thermofusible HDPE Film	—	—
Compound type	SBS- Self Adhesive Compound	—	—
Softening point (R&B)	>115°C	ASTM D 36	—
Penetration @ (25°C) 0.1mm	30 - 45	ASTM D 5	—
Elongation (Compound), %	>1000	ASTM D 146 UEAtc MOAT 31	—
Elastic recovery (Compound), %	>90	ASTM D 113 ASTM D 6084	—

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEBOND BS 1000"

AWAZEBOND BS 2000

Blind-Side, Pre-Applied, Bonded to Structural Concrete
Waterproofing System Membrane

Pre-Applied, Blind-Side
Bonded to Structural Concrete
Waterproofing System Membrane

REF: MNFG-AWBNDBS2000-0725

THIS PRODUCT

AWAZEBOND BS 2000 is a proprietary Value-Engineering, high performance, pre-applied membrane, bonded to structural concrete. AWAZEBOND BS 2000 comprises a unique formula of self-healing SBS modified bitumen compound reinforced with a durable double carrier composition that acts as a reinforcement to the membrane thus enhances its impact resistance and mechanical properties required to withstand the tough site conditions. AWAZEBOND BS 2000 is surfaced with a special rough texture components formulated to promote the physical and mechanical bond to the structural concrete. AWAZEBOND BS 2000 comes within a comprehensive, integral system-design to accommodate for all the critical detailing required for deep excavation conditions that comprise; high hydrostatic pressure, high water-table and aggressive soil environments. The system design also provisions for the flexibility required in blind-side (no shoring) and conventional tanking (open shoring) construction designs. While AWZEBOND BS 2000 system design allows for pre-applied application, it fits in with other post-applied AWAZEL thermofusible SBS modified bitumen waterproofing membranes to ensure the continuation of the envelope and watertightness around the structure. AWZEBOND BS 2000's strong adhesion to concrete prevents lateral-water-migration whereby – even in the worst conditions – repair cost is reduced, and time is saved to proceed with the following works.

USES & APPLICATIONS

- Horizontal and vertical pre-applied, blind-Side and bonded substructure waterproofing where the structural design calls for a pre-applied application due to space and shoring limitations.
- Post-applied, and conventional substructure tanking waterproofing

FEATURES & ADVANTAGES

- Value engineering design (cost and time saving).
- Excellent adhesion to poured-in-place concrete (over 3000 N).
- Excellent durability.
- Excellent response to the exothermic effect of concrete curing. Self-healing structure.
- Slip resistant (excellent coefficient of friction).
- Effective prevention of radon gas penetrating through the building envelope.
- Homogeneous overlapping (no tapes or accessories required)
- System design helps reduce carbon footprint (reduces equipment emissions due to reduced excavation necessities).
- High resistance to chemicals presents in the soil.
- High hydrostatic pressure resistance.
- Primer less in pre-applied design except on detailing locations.
- Excellent dimensional stability.
- Excellent impact resistance.
- Excellent heat resistance.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

HEALTH & SAFETY

- All safety measures should be observed during installation.
- Installation personnel should always wear protective gear during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water.
- Keep rolls in an upright position.
- Do not stack more than 2 pallets.



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TECHNICAL DATA SHEET

Formerly Known as "AWAZEBOND BS 1000"

AWAZEBOND BS 2000

Blind-Side, Pre-Applied, Bonded to Structural Concrete
Waterproofing System Membrane

Pre-Applied, Blind-Side
Bonded to Structural Concrete
Waterproofing System Membrane

REF: MNFG-AWBNDBS2000-0725

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile strength at peak load, kN/m Longitudinal Transverse	26.5 21.5	ASTM D 5147 ASTM D 146 UEAtc MOAT 31
Elongation at break, % Longitudinal Transverse	55 65	ASTM D 5147 ASTM D 146 UEAtc MOAT 31
Tear strength, N Longitudinal Transverse	900 800	ASTM D 4073
Adhesion to poured-in place-concrete, @ 22°C, N	> 4,800	ASTM D 903 modified (Peeled at 50 mm/min)
Water vapour permeance	< 2.1 ng / (Pa • S • m ²)	ASTM E96 (Method B)
Resistance to hydrostatic pressure	7 bar (70 m)	ASTM D 5385 / DIN 52123
Water absorption @ 24 hours, %	≤ 0.12	ASTM D 570
Heat Resistance, 100 °C	No Flowing	UEAtc M.O.A.T 31
Puncture resistance, N	1,700	ASTM E154
Low temperature flexibility, °C	No Crack @ (-20) °C	ASTM D 5147
Lap Joint strength	Same as Membrane	ASTM D 5147
Resistance to lateral water migration	No migration at 7 Bar (70 m)	ASTM D 5385 / DIN 52123
Dimensional Stability, %	≤ 1.0	ASTM D 5147
Dynamic Puncture Resistance	l ₄ (4-6mm Indenter)	UEAtc M.O.A.T 27
Static Puncture Resistance	l ₄ (25 Kg)	UEAtc M.O.A.T 27

NOTE: The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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TECHNICAL DATA SHEET

Formerly Known as "AWAZEBOND BS 1000"

AWAZEBOND BS 2000

Blind-Side, Pre-Applied, Bonded to Structural Concrete
Waterproofing System Membrane

Pre-Applied, Blind-Side
Bonded to Structural Concrete
Waterproofing System Membrane

REF: MNFG-AWBNDBS2000-0725

ATTRIBUTES & PRESENTATION

ATTRIBUTE	RESULT	TEST METHOD	ACCEPTABLE TOLERANCE BY STANDRAD
Thickness	4.5 mm	—	± 5 - 10%
Roll length	10.0 m	—	—
Roll width	1.0 m	—	—
Roll weight	> 45 kg	—	—
Top Surface	Specially Treated Rough Minerals	—	—
Underface	Thermofusible HDPE Film	—	—
Selvedge	100 mm width selvedge covered with Thermofusible HDPE Film	—	—
Compound type	SBS- Self Healing Compound	—	—
Softening point (R&B)	> 115°C	ASTM D 36	—
Penetration @ (25°C) 0.1mm	30 - 45	ASTM D 5	—
Elongation (Compound), %	> 1000	ASTM D 146 UEAtc MOAT 31	—
Elastic recovery (Compound), %	> 90	ASTM D 113 ASTM D 6084	—

GENERAL APPLICATION GUIDELINES

- AWAZEBOND BS 2000 is an integral component of AWAZEL's AWAZEGUARD BG bonded systems
- In horizontal application apply the "AWZEBOND BS 2000" loose laid over the prepared blinding substrate.
- Starting at wall/floor joint un-roll the membrane rolls to the full extent to align properly with the perimeter and
- Re-roll the membrane after alignment and commence torching side-and end-laps provisioning for 100 mm side-lap and 150 mm end-lap while using a round nose trowel to create a perfect seam with the bead of bitumen.
- Stagger laps to avoid excessive layering. End laps of subsequent rolls shall be staggered by at least 300 mm.
- All angle changes, inside and outside corners, must be reinforced by installing an additional 300 mm cut-piece of "AWZEBOND BS 2000" membrane fully heat-welded with a torch or hot air gun over primed substrate prior to the installation of field membrane.
- Under construction joints use AWAZEL's CJ-BOND 25 mm membrane pre-cut strips fully heat-welded onto the membrane surface centered at the location of the joint as an alternative to external PVC waterstop. Avoid using PVC waterstop over AWAZEBOND membrane.
- Please contact AWAZEL TECHNICAL SUPPORT DEPARTMENT to receive full system information and documents.



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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**NON-REINFORCED
SHEET MEMBRANES**

S.B.S
MODIFIED



TABLE OF CONTENTS

CLM CARRIERLESS

High Performance SBS Modified Carrierless Waterproofing Membrane

Self-Healing
Waterproofing Sheet Membranes

REF: CLMCRLESS-REG-0324

THIS PRODUCT

CLM CARRIERLESS is a line of high performance, elastomeric (SBS) bituminous, non-reinforced membranes manufactured from a prime blend of pure bitumen and modifiers which extend their physical advantages to the finished product's bitumen compound. This elastomeric compound provides high elongation and elasticity that allows the membrane to self-heal and recover more than 90 % of its original dimensions when and if punctured. Due to their unique formula and physical properties, CLM CARRIERLESS membranes exhibit durability and longer service life compared to other types of bitumen waterproofing membranes. CLM membranes are laminated with a polyethylene film on both upper & lower sides, while CLM BSF membranes are laminated with a fine fabric on both upper & lower sides for an enhanced dimensional stability.

USES & APPLICATIONS

- Below-Grade waterproofing applications in projects subject to high hydrostatic pressure aggression.
- Tunnels, bridges and other civil engineering applications where high movement is projected.
- Part of expansion joint waterproofing assembly.
- Roofing applications where optimum protection of roof slabs.
- All other superstructure applications.

SUPPLY & PACKAGING

- 10 m long x 1 m wide Roll
- 8 m long x 1 m wide Roll

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Remarkable durability and long service life.
- Superior elongation properties
- Excellent elastic recovery
- Self-healing
- High adaptability to detailing
- Remarkable resistance to aggressive attack of salts and chemicals.

STORAGE & HANDLING

- All rolls should be stored in an upright position.
- All rolls should be kept away from flame sources in a properly ventilated space.
- Avoid material stacking

TYPICAL INSTALLATION PROCEDURES

- Unroll the AWAZEL CLM membrane sheets over the substrate and allow the roll to ease prior to application.
- Align the membrane properly around the perimeter prior to installation.
- Ensure specified side-laps (100 mm) and end laps (150mm) are maintained.
- Observe membrane staggering during application.
- Observe proper membrane termination as specified after field installation works are completed.
- On Roofs: determine drain locations, pipe penetrations and protrusions prior to installing the membrane and follow detailing procedures as per the project's Method Statement presented by AWAZEL.
- Refer to project's Method Statement for more information.

SHELF LIFE

- 18 months when properly stored in original packaging as per storage & handling instructions.



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CLM CARRIERLESS

High Performance SBS Modified Carrierless Waterproofing Membrane

Self-Healing
Waterproofing Sheet Membranes

REF: CLMCRLESS-REG-0324

CHARACTERISTICS

PROPERTY	TYPICAL RESULTS				TEST METHOD
	CLM 30 CLM 30 BSF	CLM 40 CLM 40 BSF	CLM 50 CLM 50 BSF	CLM 60 CLM 60 BSF	
Roll size (m)	10 x 1	10 x 1	8 x 1	8 x 1	UEAtc M.O.A. T. 31
Nominal thickness (mm)	3	4	5	6	UEAtc M.O.A. T. 31
Nominal weight per unit (kg/m ²)	> 3	> 4	> 5	> 6	UEAtc M.O.A. T. 31
Softening point (°C)	130				ASTM D 36
Penetration @ 25°C, 0.1 mm	30- 45				ASTM D 5
Ultimate elongation (%)	> 1000				UEAtc M.O.A. T. 31
Cold flexibility @ (-25) to (-30) °C	No cracking				UEAtc M.O.A. T. 31
Heat resistance @ 100 °C	No flowing				UEAtc M.O.A. T. 31
Hydrostatic Pressure Resistance up to 7 bars	No leakage				DIN 52123
Water absorption (%)	< 0.12				ASTM D 5147
Resistance to ageing 2000 hrs, accelerated weathering	No deterioration				ASTM D 4799

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

PRESENTATION

ATTRIBUTE	RESULT
CLM FILM	Rolls surfaced with Polyethelene film Packed in cardboard boxes
CLM FABRIC	Rolls surfaced with Polypropylene fabric Packed in cardboard boxes
CLM SAND	Rolls surfaced with Sand Crystals Packed in cardboard boxes

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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**REINFORCED
SHEET MEMBRANES**

A.P.P.
MODIFIED



TABLE OF CONTENTS

DESERT SHIELD (DS)

APP modified bituminous membrane, reinforced with Polyester

Compliance: ASTM D 6222, Type I & II, Grade S and SASO - ASTM D 6222M

DS 30,
DS 40, DS 40 M
DS 40 200, DS 40 200M
DS 40 250, DS 40 250 M
DS 50 250, DS 50 250M

Flame-Bonded Waterproofing Sheet Membranes

REF: MFG-APP-AWDS40-0324-REV.01-0125

THIS PRODUCT

AWAZEL DESERT SHIELD (DS) a flame-bonded, bitumen sheet membranes modified with Atactic Polypropylene (APP) polymer and reinforced with a durable non-woven polyester mat. The reinforcement plays a major role in providing the finished membrane with outstanding mechanical properties while the polymer modification supports its physical properties, service-life, and durability. AWAZEL DS membranes are produced in different thickness and surface finish to suit projects requirements and application usage. AWAZEL DS membranes are surfaced with a Polyethylene film for non-exposed applications while AWAZEL DSM is surfaced with UV resistant mineral slates for exposed APPLICATIONS. The lower side of both membranes is laminated with a heat-weldable Polyethylene film.

USES & APPLICATIONS

- General vertical and horizontal waterproofing works in below-grade.
- Tanking systems
- Roof waterproofing in an inverted roofing assembly.
- Can be used as a base sheet along with a top sheet of Mineral granule surfaced AWAZEL DS Mineral for exposed roof.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Rolls should be kept in an upright position in a properly ventilated and shaded storage area.
- Keep away from any source of flame.
- Avoid materials stacking

FEATURES & ADVANTAGES

- Superior Flexibility
- Durable and easy to apply
- Accommodates temperature fluctuations
- Remarkable resistance to aggressive attack of most salts and chemicals
- High tensile strength and elongation
- Excellent puncture Resistance

TYPICAL INSTALLATION PROCEDURES

- AWAZEL DS can be installed in a single-ply or double-ply waterproofing assembly, loose-laid fashion, or fully bonded propane by torch welding.
- The substrate should be clean and free from debris, protrusions or other elements that may damage the membrane.
- Substrate must be primed by AWAZEL PRIMER D41 and allowed to dry.
- Side-laps should be 100 mm while end-laps should be 150 mm
- Use AWAZEL detailing accessories for internal, external corners and detail dressing.
- Torching should be done by skilled and trained labour and should be controlled to avoid excessive torching or burn up of the membrane.
- Avoid mishandling of membrane on-site to achieve the best results. Rolls should always be kept in an upright position.
- Refer to the method Statement for more information on installation procedures.

SHELF LIFE

- 24 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

DESERT SHIELD (DS)

APP modified bituminous membrane, reinforced with Polyester

Compliance: ASTM D 6222, Type I & II, Grade S and G and SASO - ASTM D 6222M

DS 30,
DS 40, DS 40 M
DS 40 200, DS 40 200M
DS 40 250, DS 40 250 M
DS 50 250, DS 50 250M

Flame-Bonded
Waterproofing Sheet Membranes

REF: MFG-APP-AWDS40-0324-REV.01-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUES					TEST METHOD		
	DS 30	DS 40 DS 40M	DS 40 200 DS 40 200M	DS 40 250 DS 40 250M	DS 50 250 DS 50 250M			
Softening Point (R&B), °C	>150					ASTM D 36		
Penetration at 25 °C, 0.1 mm	15 - 30					ASTM D 5		
Tensile strength, N/5 cm	Longitudinal Transverse	700 500	900 700	1000 800	1150 1000	1250 1050	ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 30	
Tensile strength, kN/m ASTM D 6222 requirement	Longitudinal Transverse	Type I		Type II		ASTM D 5147 ASTM D 146		
Tensile strength, kN/m, - 18 °C, ASTM D 6222 requirement	Longitudinal Transverse	≥ 8.8		≥ 14		ASTM D 5147 ASTM D 146		
Tensile strength, kN/m, - 18 °C, ASTM D 6222 requirement	Longitudinal Transverse	Type I		Type II		ASTM D 5147 ASTM D 146		
Elongation, %	Longitudinal Transverse	45 50				ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 30		
Tear Resistance, N	Longitudinal Transverse	350 325	450 400	500 400	550 450	600 500	ASTM D 4073	
Tear Resistance, N ASTM D 6222 requirement	Longitudinal Transverse	Type I		Type II		ASTM D 4073		
		311		356				
Lap joint strength, N/5 cm	Longitudinal Transverse	700 500	900 700	1000 800	1150 1000	1250 1050	UEAtc M.O.A.T. 30 & 27	
Load Strain Product	Longitudinal Transverse	31,500 25,000	42,500 35,000	45,000 40,000	51,750 50,000	56,250 52,000	CGSB 37-GP 56 M	
Hydrostatic Pressure Resistance up to 7 bars	No Leakage					DIN 52123		
Cold flexibility at -5 °C	No Cracking					UEAtc M.O.A.T. 30		
Cold Flexibility, ASTM D 6222 requirement	No Cracking at 0 °C					ASTM D 5147		
Heat resistance at 135 °C	No Flowing					UEAtc M.O.A.T. 30		
Moisture Content (W.V.T.), %	≤ 1.00					ASTM E 96		
Water absorption (Grade S), %	≤ 0.12					ASTM D 570		
Water absorption, %, ASTM D 6222 requirement	≤ 3.20					ASTM D 5147		
Static Puncture Resistance	L ₃ (15 Kg)		L ₄ (25 Kg)		L ₄ (25 Kg)		UEAtc M.O.A.T. 27	
Dynamic Puncture Resistance	I ₃ (8-12mm indenter)		I ₄ (4-6mm indenter)		I ₄ (4-6mm indenter)		UEAtc M.O.A.T. 27	
Dimensional Stability, %	≤ 1.0					ASTM D 5147		
Resistance to Aging after 2000 hrs	No Deteriorations					ASTM D 4799		

NOTE: 1. The above values are nominal & subject to UEAtc tolerance; Tensile strength/Lap joint strength ± 20% / Elongation ± 15%

2. The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3. AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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TECHNICAL DATA SHEET

DESERT SHIELD (DS)

High Performance APP modified bituminous membrane, reinforced with Polyester
Compliance: ASTM D 6222, Type I & II, Grade S and SASO - ASTM D 6222M

DS 30,
DS 40, DS 40 M
DS 40 200, DS 40 200M
DS 40 250, DS 40 250 M
DS 50 250, DS 50 250M

Flame-Bonded
Waterproofing Sheet Membranes

REF: MFG- APP -AWDS40-0324-REV.01-0125

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUES					TEST METHOD	ACCEPTABLE TOLERANCE BY STANDARD
	DS 30	DS 40 DS 40M	DS 40 200 DS 40 200M	DS 40 250 DS 40 250M	DS 50 250 DS 50 250M		
Roll size, m	10 x 1 m	10 x 1 m	10 x 1 m	10 x 1 m	8 x 1 m	ASTM D 5147	—
Thickness, mm	3.0	4.0	4.0	4.0	5.0	ASTM D 5147	± 5 - 10%
Unit weight (Plain), Kg/m ²	> 3.0	> 4.0	> 4.0	> 4.0	> 5.0	ASTM D 5147	± 10%
Unit weight (Mineral), Kg/m ²	—	> 4.5	> 4.5	> 4.5	> 5.5	ASTM D 5147	± 10%
Selvedge width, mm	100					EN 13707: 2013	7.5 - 100 mm
Carrier (Polyester), g/m ²	160	180	200	250	250	UEAtc M.O.A.T. 30	± 15%
Coating Asphalt Type	APP Modified Asphalt					—	—



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AWAZEL PYE

APP Modified Bitumen Waterproofing Membrane

Compliance: ASTM D 6222, Type I & II, Grade S & G & SASO - ASTM D 6222M

PY 30E
PY 40E, PY 40EM
PY 40 200E, PY 40 200EM
PY 40 250E, PY 40 250EM
PY 50 250E, PY 50 250EM

Flame - Welded Waterproofing Sheet Membranes

REF: MNFG-MEMAPP-PYE-0224-REV.01-0125

THIS PRODUCT

AWAZEL's PYE is a line of flame-bonded, high-performance, thermofusible bitumen sheet membranes modified with Atactic Polypropylene (APP) polymer and reinforced with a durable non-woven polyester mat. The reinforcement plays a major role in providing the finished membrane with outstanding mechanical properties while the polymer modification supports its physical properties, service-life, and durability. AWAZEL's PYE membranes are produced in different thickness and surface finish to suit projects requirements and application usage. PYE membranes are surfaced with a Polyethylene film for non-exposed applications while PYEM is surfaced with UV resistant mineral slates for exposed applications. The lower side of both membranes is laminated with a heat-weldable Polyethylene film.

USES & APPLICATIONS

- Ideal for below-grade and roofing applications.
- Single ply roofing and waterproofing assembly.
- Two-ply roofing and waterproofing assembly.
- UV resistant and is used as a cap-sheet in a two-ply non-accessible roofing assembly or as Skirting and final exposed layer in roofing assemblies (PYE M)

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Rolls should be kept in an upright position in a properly ventilated and shaded storage area.
- Keep away from any source of flame.
- Avoid materials stacking

FEATURES & ADVANTAGES

- Durable and easy to apply
- Accommodates temperature fluctuations
- Remarkable resistance to aggressive attack of most salts and chemicals
- High tensile strength and elongation
- Excellent Tear and Puncture Resistance

TYPICAL INSTALLATION PROCEDURES

- AWAZEL PYE can be installed in a single-ply or double-ply waterproofing assembly, loose-laid fashion, or fully bonded propane by torch welding.
- The substrate should be clean and free from debris, protrusions or other elements that may damage the membrane.
- Substrate must be primed by AWAZEL PRIMER D41 and allowed to dry.
- Side-laps should be 100 mm while end-laps should be 150 mm
- Use AWAZEL detailing accessories for internal, external corners and detail dressing.
- Torching should be done by skilled and trained labour and should be controlled to avoid excessive torching or burn up of the membrane.
- Avoid mishandling of membrane on-site to achieve the best results. Rolls should always be kept in an upright position.
- Refer to the method Statement for more information on installation procedures.

SHELF LIFE

- 24 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

AWAZEL PYE

APP Modified Bitumen Waterproofing Membrane

Compliance: ASTM D 6222, Type I & II, Grade S & G & SASO - ASTM D 6222M

PY 30E
PY 40E, PY 40E M
PY 40 200E, PY 40 200EM
PY 40 250E, PY 40 250E M
PY 50 250E, PY 50 250E M

Flame - Welded Waterproofing Sheet Membranes

REF: MNFG-MEMAPP-PYE-0224-REV.01-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUES					TEST METHOD		
	PY 30E	PY 40E PY 40EM	PY 40 200E PY 40 200EM	PY 40 250E PY 40 250EM	PY 50 250E PY 50 250EM			
Softening Point (R&B), °C	155					ASTM D 36		
Penetration at 25 °C, 0.1 mm	20 - 30					ASTM D 5		
Tensile strength, N/5 cm	Longitudinal Transverse	700 500	950 800	1100 850	1150 900	1250 1050	ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 30	
Tensile strength, kN/m ASTM D 6222 requirement	Longitudinal Transverse	Type I		Type II		ASTM D 5147 ASTM D 146		
Tensile strength, kN/m, -18 °C, ASTM D 6222 requirement	Longitudinal Transverse	22 20		26 22		ASTM D 5147 ASTM D 146		
Elongation, %	Longitudinal Transverse	55 60				ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 30		
Elongation, ASTM D 6222 requirement %, Longitudinal & Transverse	Type I		Type II		ASTM D 5147 ASTM D 146			
Elongation, %, -18 °C ASTM D 6222 requirement	Longitudinal Transverse	24 26				ASTM D 5147 ASTM D 146		
Tear Resistance, N	Longitudinal Transverse	350 325	500 400	600 400	650 450	700 500	ASTM D 4073	
Tear Resistance, N ASTM D 6222 requirement	Longitudinal Transverse	Type I		Type II		ASTM D 4073		
Lap joint strength, N/5 cm	Longitudinal Transverse	700 500	950 800	1100 850	1150 900	1250 1050	UEAtc M.O.A.T. 30 & 27	
Load Strain Product	Longitudinal Transverse	38,500 30,000	52,250 48,000	60,500 51,000	63,250 54,000	68,750 63,000	CGSB 37-GP 56 M	
Hydrostatic Pressure Resistance up to 7 bars	No Leakage					DIN 52123		
Cold flexibility at (-5)°C to (-10)°C	No Cracking					UEAtc M.O.A.T. 30		
Cold Flexibility, ASTM D 6222 requirement	No Cracking at 0 °C					ASTM D 5147		
Heat resistance at 150 °C	No Flowing					UEAtc M.O.A.T. 30		
Moisture Content (W.V.T.), %	< 0.28					ASTM E 96		
Water absorption (Grade S), %	≤ 0.12					ASTM D 570		
Water absorption, %, ASTM D 6222 requirement	≤ 3.20					ASTM D 5147		
Resistance to Puncture, N	> 1100					ASTM E 154		
Static Puncture Resistance	L ₃ (15 Kg)		L ₄ (25 Kg)				UEAtc M.O.A.T. 27	
Dynamic Puncture Resistance	I ₃ (8-12mm indenter)		I ₄ (4-6mm indenter)				UEAtc M.O.A.T. 27	
Dimensional Stability, %	≤ 1.0					ASTM D 5147		
Resistance to Aging after 2000 hrs	No Deteriorations					ASTM D 4799		

NOTE: 1. The above values are nominal & subject to UEAtc tolerance; Tensile strength/Lap joint strength ± 20% / Elongation ± 15%

2. The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3. AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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TECHNICAL DATA SHEET

AWAZEL PYE

APP Modified Bitumen Waterproofing Membrane

Compliance: ASTM D 6222, Type I & II, Grade S & G & SASO - ASTM D 6222M

PY 30E
PY 40E, PY 40E M
PY 40 200E, PY 40 200EM
PY 40 250E, PY 40 250E M
PY 50 250E, PY 50 250EM

Flame - Welded Waterproofing Sheet Membranes

REF: MNFG-MEMAPP-PYE-0224-REV.01-0125

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUES					TEST METHOD	ACCEPTABLE TOLERANCE BY STANDRAD
	PY 30E	PY 40E PY 40EM	PY 40E 200 PY 40 200EM	PY 40 250E PY 40 250EM	PY 50 250E PY 50 250EM		
Roll size, m	10 x 1 m	10 x 1 m	10 x 1 m	10 x 1 m	8 x 1 m	ASTM D 5147	—
Thickness, mm	3.0	4.0	4.0	4.0	5.0	ASTM D 5147	± 5 - 10%
Unit weight (Plain), Kg/m ²	> 3.0	> 4.0	> 4.0	> 4.0	> 5.0	ASTM D 5147	± 10%
Unit weight (Mineral), Kg/m ²	—	> 4.5	> 4.5	> 4.5	> 5.5	ASTM D 5147	± 10%
Selvedge width, mm	100				EN 13707: 2013		7.5 - 100 mm
Carrier (Polyester), g/m ²	160	180	200	250	250	UEAtc M.O.A.T. 30	± 15%
Coating Asphalt Type	APP Modified Asphalt				—	—	—



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TECHNICAL DATA SHEET

AWAZEL PYGE

High Performance APP Modified Bitumen Waterproofing Membrane
Reinforced with Double Carriers (Polyester + Glass Fiber)
Compliance: ASTM D 6223, Type I & II, Grade S and SASO - ASTM D 6223M

PYG 40 E, PYG 40E M
PYG 40 250 E, PYG 40 250E M
PYG 50 E, PYG 50E M
PYG 60 E, PYG 60E M

Flame-Bonded Waterproofing Sheet Membranes

REF: AWPYGE-APP-0324-REV.01-0125

THIS PRODUCT

High Performance, APP Modified bituminous membrane, reinforced with two carriers (non woven polyester mat and glass fiber mat). The polyester combines high tensile strength and elongation and glass fiber provides dimensional stability. The special polymer modifier used has great resistance to ultra -violet radiation. PYGE membranes are supplied in different thickness and surface finish to suit project's requirements. PYGE membranes are surfaced with a smooth Polyethylene film for covered applications while PYGM membranes are surfaced with mineral slates for exposed applications.

USES & APPLICATIONS

- Ideal to use as single and/or double layers waterproofing of reinforced concrete bridge decks.
- Also used for general waterproofing applications where impact resistance, toughness and dimensional stability are required.
- Maybe used as a root barrier in light, short roots vegetation. Dense vegetation requires an additional layer of AWAZEL DIMPLE SHEET, HDPE drainage board as the reliable root barrier.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Rolls should be kept in an upright position in a properly ventilated and shaded storage area.
- Keep away from any source of flame.
- Avoid materials stacking

FEATURES & ADVANTAGES

- Ideal to use as Hot Mix under layer
- High Flexibility at low temperature and stability at high temperature.
- Durable and easy to apply.
- Remarkable resistance to aggressive attack of salts and chemicals.
- High tensile strength, elongation and dimensional stability.
- Heavy duty double carriers provides anti-root characteristics

TYPICAL INSTALLATION PROCEDURES

- The substrate should be cleaned and primed with AWAZEL PRIMER D 41 and allowed to dry.
- In roof waterproofing applications, these membrane can be installed as fully bonded or loose-laid.
- For bridge deck applications, they must be fully bonded to avoid wrinkling caused by heavy vehicles breaking in the bridge.
- Torching should be done by skilled labor and should be controlled so that only the PE film is melted and the asphalt coating is softened sufficient to bond the membrane.
- All lap joints should be smoothed and sealed using a heated round-nosed trowel.
- In loose-laid applications, only the lap joints, areas around penetrations (pipes etc.), upstands and a 30 cm wide strip around the perimeter of the work should be bonded.
- The overlap joints should be 5 to 10 cm at the sides and 15 cm at the end.

SHELF LIFE

- 24 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

AWAZEL PYGE

High Performance APP Modified Bitumen Waterproofing Membrane
Reinforced with Double Carriers (Polyester + Glass Fiber)
Compliance: ASTM D 6223, Type I & II, Grade S and SASO - ASTM D 6223M

PYG 40 E, PYG 40E M
PYG 40 250 E, PYG 40 250E M
PYG 50 E, PYG 50E M
PYG 60 E, PYG 60E M

Flame-Bonded
Waterproofing Sheet Membranes

REF: AWPYGE-APP-0324-REV.01-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUES				TEST METHOD			
	PYG 40 E PYG 40 E M	PYG 40 250 E PYG 40 250E M	PYG 50 E PYG 50E M	PYG 60 E PYG 60E M				
Softening Point (R&B), °C	>155				ASTM D 36			
Penetration at 25 °C, 0.1 mm	15 - 30				ASTM D 5			
Tensile strength, N/5 cm	Longitudinal Transverse	1000 800	1200 1000	1200 1000	1250 1050	ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 30		
Tensile strength, kN/m ASTM D 6223 requirement	Longitudinal Transverse	Type I ≥ 11.4	Type II ≥ 17.5			ASTM D 5147 ASTM D 146		
Tensile strength, kN/m, - 18 °C, ASTM D 6223 requirement	Longitudinal Transverse	23 15	30 20			ASTM D 5147 ASTM D 146		
Elongation, %	Longitudinal Transverse	45 50			ASTM D 5147, ASTM D 146 UEAtc M.O.A.T. 30			
Elongation, ASTM D 6223 requirement %, Longitudinal & Transverse	≥ 3.0				ASTM D 5147 ASTM D 146			
Elongation, %, -18 °C ASTM D 6223 requirement	Longitudinal Transverse	26 30			ASTM D 5147 ASTM D 146			
Tear Resistance, N	Longitudinal Transverse	500 400	650 450	700 500	700 500	ASTM D 4073		
Lap joint strength, N/5 cm	Longitudinal Transverse	1000 800	1200 1000	1200 1000	1250 1050	UEAtc M.O.A.T. 30 & 27		
Load Strain Product	Longitudinal Transverse	45,000 40,000	54,000 50,000	54,000 50,000	56,250 52,500	CGSB 37-GP 56 M		
Hydrostatic Pressure Resistance up to 7 bars	No Leakage				DIN 52123			
Cold flexibility at (-5)°C to (-10)°C	No Cracking				UEAtc M.O.A.T. 30			
Cold Flexibility, ASTM D 6223 requirement	No Cracking at 0 °C				ASTM D 5147			
Heat resistance at 150 °C	No Flowing				UEAtc M.O.A.T. 30			
Moisture Content (W.V.T.), %	< 1.0				ASTM E 96			
Water absorption (Grade S), %	≤ 0.12				ASTM D 570			
Water absorption, %, ASTM D 6223 requirement	≤ 3.20				ASTM D 5147			
Static Puncture Resistance	L ₃ (15 Kg)		L ₄ (25 Kg)		UEAtc M.O.A.T. 27			
Dynamic Puncture Resistance	I ₃ (8-12mm indenter)		I ₄ (4-6mm indenter)		UEAtc M.O.A.T. 27			
Dimensional Stability, %	≤ 1.0				ASTM D 5147			
Resistance to Aging after 2000 hrs	No Deteriorations				ASTM D 4799			

NOTE: 1. The above values are nominal & subject to UEAtc tolerance; Tensile strength/Lap joint strength ± 20% / Elongation ± 15%
2. The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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Reinforced with Double Carriers (Polyester + Glass Fiber)
Compliance: ASTM D 6223, Type I & II, Grade S and SASO - ASTM D 6223M

PYG 40 E, PYG 40E M
PYG 40 250 E, PYG 40 250E M
PYG 50 E, PYG 50E M
PYG 60 E, PYG 60E M

Flame-Bonded
Waterproofing Sheet Membranes

REF: AWPYGE-APP-0324-REV.01-0125

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUES				TEST METHOD	ACCEPTABLE TOLERANCE BY STANDRAD
	PYG 40 E PYG 40 E M	PYG 40 250 E PYG 40 250E M	PYG 50 E PYG 50E M	PYG 60 E PYG 60E M		
Roll size, m	10 x 1 m	10 x 1 m	8 x 1 m	8 x 1 m	ASTM D 5147	—
Thickness, mm	4.0	4.0	5.0	6.0	ASTM D 5147	± 5 - 10%
Unit weight (Plain), Kg/m ²	> 4.0	> 4.0	> 5.0	> 6.0	ASTM D 5147	± 10%
Unit weight (Plain), Kg/m ²	> 4.0	> 4.0	> 5.0	> 6.0	ASTM D 5147	± 10%
Carrier (Polyester), g/m ²	200	250	250	250	ASTM D 5147	± 15%
Selvedge width, mm	100				EN 13707: 2013	7.5 - 100 mm
Glass Fiber, g/m ²	50-60	50-60	50-60	50-60	UEAtc M.O.A.T. 30	± 15%
Coating Asphalt Type	APP Modified Asphalt				—	—

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AWAZEFLAME APP 200

APP Modified Bituminous Membrane, Reinforced with Polyester

THIS PRODUCT

AWAZEFLAME APP 200 a flame-bonded, bitumen sheet membranes modified with Atactic Polypropylene (APP) polymer and reinforced with a durable non-woven polyester mat. The reinforcement plays a major role in providing the finished membrane with outstanding mechanical properties while the polymer modification supports its physical properties, service-life, and durability. AWAZEFLAME APP 200 membranes are produced in different thickness and surface finish to suit projects requirements and application usage. AWAZEFLAME APP 200P membranes are surfaced with a Polyethene film for non-exposed applications while AWAZEFLAME APP 200M is surfaced with UV resistant mineral slates for exposed APPLICATIONS. The lower side of both membranes is laminated with a heat-weldable Polyethylene film.

USES & APPLICATIONS

- General vertical and horizontal waterproofing works in below-grade.
- Tanking systems
- Roof waterproofing in an inverted roofing assembly.
- Can be used as a base sheet along with a top sheet of Mineral granule surfaced AWAZEFLAME APP 200 Mineral for exposed roof.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Rolls should be kept in an upright position in a properly ventilated and shaded storage area.
- Keep away from any source of flame.
- Avoid materials stacking

FEATURES & ADVANTAGES

- Superior Flexibility
- Durable and easy to apply
- Accommodates temperature fluctuations
- Remarkable resistance to aggressive attack of most salts and chemicals
- High tensile strength and elongation
- Excellent puncture Resistance

TYPICAL INSTALLATION PROCEDURES

- AWAZEFLAME APP 200 can be installed in a single-ply or double-ply waterproofing assembly, loose-laid fashion, or fully bonded propane by torch welding.
- The substrate should be clean and free from debris, protrusions or other elements that may damage the membrane.
- Substrate must be primed by AWAZEL PRIMER D41 and allowed to dry.
- Side-laps should be 100 mm while end-laps should be 150 mm
- Use AWAZEL detailing accessories for internal, external corners and detail dressing.
- Torching should be done by skilled and trained labour and should be controlled to avoid excessive torching or burn up of the membrane.
- Avoid mishandling of membrane on-site to achieve the best results. Rolls should always be kept in an upright position.
- Refer to the method Statement for more information on installation procedures.



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AWAZEFLAME APP 200

APP Modified Bituminous Membrane, Reinforced with Polyester

Flame-Bonded
Waterproofing Sheet Membranes

REF: MFG- APP -AWAF200-1223

CHARACTERISTICS

PROPERTY	NOMINAL VALUES		TEST METHOD
	AWAZEFLAME APP 200P	AWAZEFLAME APP 200M	
Wrapping Tapes: Upper Side Middle Lower Side	Polyester Transparent 4mm		----
Surfacing: Top Bottom	Printed PE Film Printed PE Film		----
Thickness, mm	3.92mm		ASTM D 5147
Weight, kg/m ²	5.16 kg/m ²		ASTM D 5147
Roll Weight, kg	51.8 kg		ASTM D 5147
Softening Point, °C	155		ASTM D 36
Penetration at 25 °C, dmm	17 / 16 dmm		ASTM D 5
Penetration at 60 °C, dmm	53 / 52 dmm		ASTM D 5
Tensile strength, N/5 cm Longitudinal & Transverse	526 356		ASTM D 5147 ASTM D 146
Elongation, % Longitudinal & Transverse	49.70 62.89		ASTM D 5147 ASTM D 146
Cold flexibility at -5 °C	No Cracking		UEAtc M.O.A.T. 30
Cold flexibility at 0 °C	No Cracking		UEAtc M.O.A.T. 30
Heat resistance at 135 °C	No Flowing		UEAtc M.O.A.T. 30
Extraction: Filler Content	32.8 %		----

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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SANAMSEAL SS

APP Modified Bitumen Waterproofing Membrane

Flame-Bonded
Waterproofing Sheet Membranes

REF: MNFG-SNMSLSS-0825

THIS PRODUCT

SANAMSEAL SS is a line of flame-bonded APP modified bitumen sheet membranes enriched with a special modification formula and reinforced with a proprietary reinforcement carrier. SANAMSEAL SS membranes are produced in different thickness and surface finish to suit projects requirements and application usage. SANAMSEAL SS membranes are surfaced with a Polyethylene film for non-exposed applications while the lower side is laminated with heat-weldable Polyethylene film.

USES & APPLICATIONS

General vertical and horizontal waterproofing works in:

- Below-grade.
- Tanking systems.
- Roof waterproofing in an inverted roofing assembly.

FEATURES & BENEFITS

- Durable and easy to apply.
- Accommodates temperature fluctuations.
- Good resistance to aggressive attack of most salts and chemicals.

STORAGE & HANDLING

- Rolls should be kept in an upright position stored in a properly ventilated and shaded storage area
- Keep away from any source of flame
- Avoid materials stacking.

HEALTH & SAFETY

- All safety measures should be observed during application.
- Fire extinguishers should be kept nearby and handy on site.
- Application personnel should wear protective gear at all times during application.
- For more information on safety measures consult the product's Material Safety Data Sheet.

GENERAL APPLICATION GUIDELINES

- SANAMSEAL SS could be used in fully torched or loose-laid waterproofing assemblies to accommodate temperature fluctuations
- The substrate should be clean and free from debris, protrusion or other elements that may damage the membrane
- Substrate must be primed by AWAZEL PRIMER D41, AWAZEPRIME SB 100 or AWAZEPRIME CA 100 primer, allowed to dry out prior to the application of SANAMSEAL SS membrane
- Rolls should be unrolled and allowed to relax then re-rolled towards the center of the roll from both directions prior to starting application
- Side-laps should be 100 mm while end-laps should be 150 mm
- Use AWAZEL detailing accessories for internal, external corners and detail dressing
- Torching should be done by skilled and trained labor and should be controlled to avoid excessive torching or burn up of the membrane
- Avoid mishandling of membrane on-site to achieve the best results
- Rolls should always be kept in an upright position
- Refer to the Method Statement for more information on application procedures.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



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SANAMSEAL SS

APP Modified Bitumen Waterproofing Membrane

Flame-Bonded
Waterproofing Sheet Membranes

REF: MNFG-SNMSLSS-0825

CHARACTERISTICS

PROPERTY	NOMINAL VALUE			TEST METHOD
	SANAMSEAL 20SS	SANAMSEAL 30SS	SANAMSEAL 40SS	
Peak load @ 23 °C, kN/m Long. (MD) Trans. (XMD)	> 8.8 > 8.8	> 8.8 > 8.8	> 8.8 > 8.8	ASTM D 5147 & ASTM 146
Peak load @ (-18) °C, kN/m Long. (MD) Trans. (XMD)	> 10.5 > 10.5	> 10.5 > 10.5	> 10.5 > 10.5	ASTM D 5147 & ASTM 146
Tear strength, Long (MD) N	> 311	> 311	> 311	ASTM D5147 & D 4073
Lap Joint strength, kN/m Long (MD)) Trans. (XMD)	10 8	10 8	10 8	CGSB-37-GP-56M
Water absorption @ 24 hours, %	≤ 0.12	≤ 0.12	≤ 0.12	ASTM D 570
Water absorption, %	≤ 3.2	≤ 3.2	≤ 3.2	SASO-ASTM D 6222M Type 1 Grade S, ASTM D 5147
Resistance to hydrostatic pressure	5 Bar (50 M)	7 Bar (70 M)	7 Bar (70 M)	DIN 52123 & ASTM D 5385
Compound Stability Heat resistance @ 135 °C	No Flowing	No Flowing	No Flowing	UEAtc MOAT 30
Resistance to lateral water migration	No Leakage	No Leakage	No Leakage	DIN 52123 ASTM D 5385
Moisture Content, %	< 1	< 1	< 1	ASTM E96
Dimensional Stability, %	< 1	< 1	< 1	ASTM D 5147
Static Puncture Resistance	L ₂ (7 kg)	L ₃ (15 kg)	L ₄ (25 kg)	UEAtc M.O.A.T 27
Dynamic Puncture Resistance	I ₂ (15-20 mm)	I ₂ (15-20 mm)	I ₃ (8-12 mm)	UEAtc M.O.A.T 27
Low temperature flexibility @ (0 to (-2)) °C	No Cracking	No Cracking	No Cracking	ASTM D 5147

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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SANAMSEAL SS

APP Modified Bitumen Waterproofing Membrane

Flame-Bonded
Waterproofing Sheet Membranes

REF: MNFG-SNMSLSS-0825

ATTRIBUTES

ATTRIBUTE	NOMINAL VALUE			Test Method	ACCEPTABLE TOLERANCE BY STANDARD
	SANAMSEAL 20SS	SANAMSEAL 30SS	SANAMSEAL 40SS		
Thickness (nominal)	2.0 mm As per standard's requirements	3.0 mm As per standard's requirements	4.0 mm As per standard's requirements	ASTM D 5147	SASO-ASTM-D6222M Type 1 Grade S
Roll length	20 M	10 M	10 M	ASTM D 5147	---
Roll width	1 M	1 M	1 M	ASTM D 5147	---
Roll weight	> 40 kg	> 30 kg	> 40 kg	---	---
Rolls per pallet	23	28	23	---	---
Carrier (Polyetser), g/m ²	160	160	160	UEAtc M.O.A.T. 30	± 15%
Coating Asphalt Type	APP Modified Asphalt				---



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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**REINFORCED
SHEET MEMBRANES**

OXIDIZED
MODIFIEDICATION



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

SELF-ADHERING SHEET MEMBRANES

LAMINATED WITH:

CROSS-LAMINATED HDPE FILM
ALUMINUM FOIL
PVC FILM
PE FILM



TABLE OF CONTENTS

ASAD AL

Self-Adhering Vapour Barrier & Waterproofing Sheet Membrane
Surfaced with Aluminum Foil

Pressure-Sensitive Reinforced Waterproofing Membranes

REF: MFG-ASDAL-0224

THIS PRODUCT

ASAD AL membranes are self-adhering cold-applied bituminous, vapor barriers and waterproofing sheet membranes used in various vertical and horizontal waterproofing applications. ASAD AL membranes are composed of a select blend of SBS modified bitumen laminated with a robust aluminum foil on the top side while protected with a peel-off siliconized release paper/film on the bottom side. The layers of the modified bitumen comprise a uniquely formulated elastomeric compound which provide for high adhesion properties suitable for high or low temperature applications, whereas the top side aluminum foil exhibits high mechanical properties, UV and puncture resistance. ASAD AL membranes is a line of products produced in different thickness to suit different project's specifications and requirements.

USES & APPLICATIONS

ASAD AL maybe used in a singly-ply or as a top sheet in a two-ply assembly in:

- Podiums and Plaza decks
- Roofing over steel decks

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Pressure-sensitive
- Suitable for exposed applications
- Remarkable resistance to UV
- Self-adhering, fast to install
- High mechanical properties
- Cold applied, eliminates fire hazard
- Accommodates temperature fluctuations
- Excellent dimensional stability
- Excellent Tear & Puncture Resistance

TYPICAL INSTALLATION PROCEDURES

- This membrane is installed by unrolling the membrane and peeling off the release siliconized film
- The membrane- particularly at the overlaps- should be firmly pressed down using a rubber hand roller to insure proper sealing.
- Side-laps should be 5 cm to 10 cm while end-laps should be between 10 cm to 15 cm firmly pressed and adhered.

SUPPLY & PACKAGING

- 1 m x 20 m Rolls

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water
- Keep rolls in an upright position
- Do not stack more than 2 pallets

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

ASAD AL

Self-Adhering Vapour Barrier & Waterproofing Sheet Membrane
Surfaced with Aluminum Foil

Pressure-Sensitive
Reinforced Waterproofing Membranes

REF: MFG- ASDAL-0224

CHARACTERISTICS

PROPERTY	TYPICAL VALUE		TEST METHOD
	ASAD 1.6 AL	ASAD 2.0 AL	
Tensile strength, N/5cm Longitudinal Transverse	250 350	250 350	UEAtc, M.O.A.T 31
Lap-joint strength, N/5cm Longitudinal Transverse	>250 >350	>250 >350	UEAtc, M.O.A.T 31
Peel strength, Kg/cm to primed concrete to self	5.0 5.5	5.0 5.5	ASTM D 1000
Hydrostatic pressure @7 bar	No leakage		DIN 52123
Low temperature flexibility, °C (Membrane)	(-25)		UEAtc MOAT 31
Heat Resistance, 100 °C	No flowing		UEAtc MOAT 31
VOC, g/L	< 50		ASTM D3960/D2369
Resistance to Aging after 2000 hours (Accelerated Weather-O-Meter)	No Deterioration		ASTM D 4799

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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COATING ASPHALT PROPERTIES

PROPERTY	VALUE	TEST METHOD
Compound type	SBS- Self Adhesive Compound	—
Softening point (R&B)	>115°C	ASTM D 36
Penetration @ (25°C) 0.1mm	60 - 80	ASTM D 5
Elongation, %	>1000	MRDD- 10 (97)

PRESENTATION

ATTRIBUTE	RESULT	
	ASAD 1.6 AL	ASAD 2.0 AL
Thickness (nominal)	1.6 mm	2.0 mm
Unit weight (nominal)	1.8 Kg/m ²	2.3 Kg/m ²
Packing	Rolls packed and palletised in cardboard boxes	
Rolls / Pallet	16	
Roll length	20 m	



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ASAD G

Self-Adhering Waterproofing Sheet Membranes
Reinforced with glassfibre carrier

Pressure-Sensitive Reinforced Waterproofing Membranes

REF: MNFG-AG-REG-0224

THIS PRODUCT

ASAD G membranes are self-adhering cold-applied bituminous, vapor barriers and waterproofing sheet membranes reinforced with a glassfibre carrier used in various vertical and horizontal waterproofing applications. ASAD G membranes are composed of a select blend of SBS modified bitumen laminated with a Polyethylene or Polypropylene robust film on the top side while protected with a peel-off siliconized release paper/film on the bottom side. The layers of the modified bitumen comprise a uniquely formulated elastomeric compound which provide for high adhesion properties suitable for high or low temperature applications whereas the top side Polyethylene/Polypropylene film exhibits high mechanical properties and puncture resistance. ASAD G membranes is a line of products produced in different thickness to suit different projects' specifications and requirements.

USES & APPLICATIONS

Used in a single layer as a waterproofing and damproofing membrane in:

- Podiums and Plaza decks
- Wet areas (bathrooms, kitchens)
- Tunnels
- Below-grade infrastructure elements
- Two-ply assembly for vertical and horizontal basement tanking systems

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Pressure-sensitive
- Self-adhering, fast to install
- High mechanical properties
- Cold applied, eliminates fire hazard
- Remarkable resistance to aggressive attack of salts and chemicals
- Accommodates temperature fluctuations
- Excellent dimensional stability
- Excellent tear & puncture resistance

TYPICAL INSTALLATION PROCEDURES

- This membrane is installed by unrolling the membrane and peeling off the release siliconized film
- The membrane- particularly at the overlaps- should be firmly pressed down using a rubber hand roller to insure proper sealing.
- Side-laps should be 5 cm to 10 cm while end-laps should be between 10 cm to 15 cm firmly pressed and adhered.

SUPPLY & PACKAGING

- 1 m x 20 m Rolls

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water
- Keep rolls in an upright position
- Do not stack more than 2 pallets

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

ASAD G

Self-Adhering Waterproofing Sheet Membranes
Reinforced with glassfibre carrier

Pressure-Sensitive
Reinforced Waterproofing Membranes

REF: MNFG-AG-REG-0224

CHARACTERISTICS

PROPERTY	TYPICAL VALUE		TEST METHOD
	ASAD 1.6 G	ASAD 2.0 G	
Tensile strength, N/5cm Longitudinal Transverse	350 250	400 300	UEAtc, M.O.A.T 31
Elongation at break, % Longitudinal Transverse	2 - 4 2 - 4	2 - 4 2 - 4	UEAtc, M.O.A.T 31
Lap-joint strength, N/5cm Longitudinal Transverse	>350 >250	>400 >300	UEAtc, M.O.A.T 31
Tear strength, N Longitudinal Transverse	60 80	60 80	UEAtc, M.O.A.T 31 ASTM D 4073
Peel strength, Kg/cm to primed concrete to self	5.5 5.0	6.0 5.5	ASTM D 1000
Hydrostatic pressure @7 bar	No leakage		DIN 52123
Low temperature flexibility, °C (Membrane)	(-25)		UEAtc MOAT 31
Heat Resistance, 100 °C	No flowing		UEAtc MOAT 31
Moisture Vapour Transmission	< 2.0 g/m ² /24 hours		ASTM E 96
Water absorption, % @24 hrs (Film)	< 0.2		ASTM D 570
VOC, g/L	< 50		ASTM D3960/D2369
Resistance to Aging after 2000 hours (Accelerated Weather-O-Meter)	No Deterioration		ASTM D 4799

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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ASAD G

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Reinforced with glassfibre carrier

Pressure-Sensitive
Waterproofing Membranes

REF: MNFG-AG-REG-0224

COATING ASPHALT PROPERTIES

PROPERTY	VALUE	TEST METHOD
Compound type	SBS- Self Adhesive Compound	—
Softening point (R&B)	>115°C	ASTM D 36
Penetration @ (25°C) 0.1mm	60 - 80	ASTM D 5
Elongation, %	>1000	MRDD- 10 (97)

PRESENTATION

ATTRIBUTE	RESULT	
	ASAD 1.6 G	ASAD 2.0 G
Thickness (nominal)	1.6 mm	2.0 mm
Unit weight (nominal)	1.8 Kg/m ²	2.3 Kg/m ²
Packing	Rolls packed and palletised in cardboard boxes, or without boxes	
Rolls / Pallet	16 (boxed), 23 (un-boxed)	
Roll length	20 m	

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ASAD HDPE

Self-Adhering Waterproofing Sheet Membranes
Surfaced with High Density Polyethylene film

Pressure-Sensitive
Waterproofing Membranes

REF: MFG-ASDHDPE-0224

THIS PRODUCT

ASAD HDPE membranes are self-adhering cold-applied bituminous, vapor barriers and waterproofing sheet membranes with a High-Density Polyethylene Film laminated onto a high performance SBS modified bitumen compound, while protected with a peel-off siliconized release paper/film on the bottom side. The layers of the modified bitumen comprise a uniquely formulated elastomeric compound which provide for high adhesion properties suitable for high or low temperature applications whereas the top side HDPE film provide high puncture resistance and stable elongation properties. ASAD HDPE membranes are used in various vertical and horizontal waterproofing applications, produced in different thickness and lengths to suit different projects' specifications and requirements.

USES & APPLICATIONS

Used in a single layer as a waterproofing and damproofing membrane in:

- Podiums and Plaza decks
- Wet areas (bathrooms, kitchens)
- Tunnels
- Culverts
- Below-grade infrastructure elements
- Part of a two-ply assembly for vertical pre-applied and post-applied substructure waterproofing systems

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Pressure-sensitive
- Self-adhering, fast to install
- Excellent physical and mechanical properties
- Cold applied, eliminates fire hazard (heating is not required)
- Remarkable resistance to aggressive attack of salts and chemicals
- Accommodates temperature fluctuations
- Excellent dimensional stability
- Excellent tear & puncture resistance

TYPICAL INSTALLATION PROCEDURES

- This membrane is installed by unrolling the membrane and peeling off the release siliconized film.
- The membrane- particularly at the overlaps- should be firmly pressed down using a rubber hand roller to insure proper sealing.
- Side-laps should be 5 cm to 10 cm while end-laps should be between 10 cm to 15 cm firmly pressed and adhered.
- Depending on application and substrate ASAD HDPE could be mechanically fastened.

SUPPLY & PACKAGING

- 1 m x 10 m Rolls (50 Rolls/pallet)
- 1 m x 20 m Rolls (16 Rolls/pallet)

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

ASAD HDPE

Self-Adhering Waterproofing Sheet Membranes
Surfaced with High Density Polyethylene film

Pressure-Sensitive
Waterproofing Membranes

REF: MFG-ASDHDPE-0223

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile strength, N/mm ² (Film) Longitudinal Transverse	20 25	ASTM D 638
Tensile strength, N/5cm (Membrane) Longitudinal Transverse	200 180	DIN 52123
Elongation at break, % (Film) Longitudinal Transverse	300 300	ASTM D 638
Elongation at break, % (Membrane) Longitudinal Transverse	250 200	DIN 52123
Tear strength, N/mm Longitudinal Transverse	340 310	ASTM D 1004
Adhesion strength, Kg/cm Primed substrate Self	5.0 5.5	ASTM D 1000
Resistance to puncture, N	200	ASTM E 154
Hydrostatic pressure @7 bar	No leakage	DIN 52123
Environmental compliance	Confirms	ASTM D 543
Low temperature flexibility, °C (Membrane)	(-25)	UEAtc MOAT 31
Heat Resistance, 100 °C	No flowing	UEAtc MOAT 31
Moisture Vapour Transmission	< 0.16 g/m ² /24 hours	ASTM E 96
Water absorption, % @24 hrs (Film)	< 0.12	ASTM D 570
Crack bridging ability, mm	> 1.00	ASTM C 836
VOC, g/L	< 50	ASTM D3960/D2369
Resistance to Aging after 2000 hours (Accelerated Weather-O-Meter)	No Deterioration	ASTM D 4799

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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ASAD HDPE

Self-Adhering Waterproofing Sheet Membranes
Surfaced with High Density Polyethylene film

Pressure-Sensitive
Waterproofing Membranes

REF: MFG-ASDHDPE-0223

COATING ASPHALT PROPERTIES

PROPERTY	VALUE	TEST METHOD
Compound type	SBS- Self Adhesive Compound	—
Softening point (R&B)	>115°C	ASTM D 36
Penetration @ (25°C) 0.1mm	60 - 80	ASTM D 5
Elongation, %	>1000	MRDD- 10 (97)

PRESENTATION

ATTRIBUTE	RESULT	
	ASAD 1.6 HDPE	ASAD 2.0 HDPE
Thickness (nominal)	1.6 mm	2.0 mm
Unit weight (nominal)	1.8 Kg/m ²	2.3 Kg/m ²
Packing	Rolls packed and palletised in cardboard boxes	
Rolls / Pallet	16 and 50	
Roll length	20 and 10 m	

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ASAD PVC

Self-Adhering Waterproofing Sheet Membranes
Surfaced with PVC film

Pressure-Sensitive Reinforced Waterproofing Membranes

REF: MNFG-APVC-REG-0224

THIS PRODUCT

ASAD PVC membranes are self-adhering cold-applied bituminous, vapor barriers and waterproofing sheet membranes with a PVC film laminated onto a high performance SBS modified bitumen compound, while protected with a peel-off siliconized release paper/film on the bottom side. The layers of the modified bitumen comprise a uniquely formulated elastomeric compound which provide for high adhesion properties suitable for high or low temperature applications whereas the top side HDPE film provide high puncture resistance and stable elongation properties. ASAD PVC membranes are used in various vertical and horizontal waterproofing applications, products in different thickness and lengths to suit different projects' specifications and requirements.

USES & APPLICATIONS

Used in a single layer as a waterproofing and damproofing membrane in:

- Podiums and Plaza decks
- Wet areas (bathrooms, kitchens)
- Tunnels
- Culverts
- Below-grade infrastructure elements
- Two-ply assembly for vertical pre-applied and post-applied substructure waterproofing systems.
- Base layer in two-ply assembly with PVC membranes

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Pressure-sensitive
- Self-adhering, fast to install
- Excellent physical and mechanical properties
- Cold applied, eliminates fire hazard (heating is not required)
- Remarkable resistance to aggressive attack of salts and chemicals
- Accommodates temperature fluctuations.
- Excellent dimensional stability
- Excellent tear & puncture resistance

TYPICAL INSTALLATION PROCEDURES

- This membrane is installed by unrolling the membrane and peeling off the release siliconized film
- The membrane- particularly at the overlaps- should be firmly pressed down using a rubber hand roller to insure proper sealing.
- Side-laps should be 5 cm to 10 cm while end-laps should be between 10 cm to 15 cm firmly pressed and adhered.
- Depending on application and substrate ASAD PVC could be mechanically fastened

SUPPLY & PACKAGING

- 1 m x 10 m Rolls (50 Rolls/pallet)
- 1 m x 20 m Rolls (16 Rolls/pallet)

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water
- Keep rolls in an upright position
- Do not stack more than 2 pallets

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

ASAD PVC

Self-Adhering Waterproofing Sheet Membranes
Surfaced with PVC film

Pressure-Sensitive
Reinforced Waterproofing Membranes

REF: MNFG-APVC-REG-0224

CHARACTERISTICS

PROPERTY	TYPICAL VALUE			TEST METHOD
	ASAD 1.6 & 2.0 PVC - 300	ASAD 1.6 & 2.0 PVC - 500	ASAD 1.6 & 2.0 PVC - 750	
Tensile strength, N/5cm Longitudinal Transverse	300 200	350 250	400 300	UEAtc, M.O.A.T 31
Elongation, % Longitudinal & Transverse	>150	>200	>250	UEAtc, M.O.A.T 31
Lap-joint strength, N/5cm Longitudinal Transverse	>300 >200	>350 >250	>400 >300	UEAtc, M.O.A.T 31
Peel strength, Kg/cm to primed concrete to self	6.5 6.0	6.5 6.0	6.5 6.0	ASTM D 1000
Resistance to puncture, N	300	400	500	ASTM E 154
Hydrostatic pressure @ 7 bar	No leakage			DIN 52123
Low temperature flexibility, °C (Membrane)	(-25)			UEAtc MOAT 31
Heat Resistance, 100 °C	No flowing			UEAtc MOAT 31
Moisture Vapour Transmission	< 0.3 g/m²/24 hours			ASTM E 96
Water absorption, % @ 24 hrs (Film)	< 0.2			ASTM D 570
VOC, g/L	< 50			ASTM D3960/D2369
Resistance to Aging after 2000 hours (Accelerated Weather-O-Meter)	No Deterioration			ASTM D 4799

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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TECHNICAL DATA SHEET

ASAD PVC

Self-Adhering Waterproofing Sheet Membranes
Surfaced with PVC film

Pressure-Sensitive
Reinforced Waterproofing Membranes

REF: MNFG-APVC-REG-0224

COATING ASPHALT PROPERTIES

PROPERTY	VALUE	TEST METHOD
Compound type	SBS- Self Adhesive Compound	—
Softening point (R&B)	>115°C	ASTM D 36
Penetration @ (25°C) 0.1mm	60 - 80	ASTM D 5
Elongation, %	>1000	MRDD- 10 (97)

PRESENTATION

ATTRIBUTE	RESULT	
	ASAD 1.6 PVC	ASAD 2.0 PVC
Thickness (nominal)	1.6 mm	2.0 mm
Unit weight (nominal)	1.9 Kg/m ²	2.4 Kg/m ²
Packing	Rolls packed and palletised in cardboard boxes	
Rolls / Pallet	16 and 50	
Roll length	20 and 10 m	



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ASAD P

Self-Adhering Waterproofing Sheet Membranes
Reinforced with Polyester Carrier

Pressure-Sensitive Reinforced Waterproofing Membranes

REF: MFG-ASDP-0224

THIS PRODUCT

ASAD P membranes are self-adhering cold-applied bituminous, vapor barriers and waterproofing sheet membranes reinforced with a polyester carrier used in various vertical and horizontal waterproofing applications. ASAD P membranes are composed of a select blend of SBS modified bitumen laminated with a Polyethylene or Polypropylene robust film on the top side while protected with a peel-off siliconized release paper/film on the bottom side. The layers of the modified bitumen comprise a uniquely formulated elastomeric compound which provide for high adhesion properties suitable for high or low temperature applications whereas the top side Polyethylene/Polypropylene film exhibits high mechanical properties and puncture resistance. ASAD P membranes is a line of products produced in different thickness to suit different projects' specifications and requirements.

USES & APPLICATIONS

Used in a single layer as a waterproofing and damproofing membrane in:

- Podiums and Plaza decks
- Wet areas (bathrooms, kitchens)
- Tunnels
- Below-grade infrastructure elements
- Two-ply assembly for vertical and horizontal basement tanking systems
- Base-Sheet member in AWAZEGUARD BG DIVERT substructure waterproofing system.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Pressure-sensitive
- Self-adhering, fast to install
- High mechanical properties
- Cold applied, eliminates fire hazard
- Remarkable resistance to aggressive attack of salts and chemicals
- Accommodates temperature fluctuations
- Excellent dimensional stability
- Excellent tear & puncture resistance

TYPICAL INSTALLATION PROCEDURES

- This membrane is installed by unrolling the membrane and peeling off the release siliconized film
- The membrane- particularly at the overlaps- should be firmly pressed down using a rubber hand roller to insure proper sealing.
- Side-laps should be 5 cm to 10 cm while end-laps should be between 10 cm to 15 cm firmly pressed and adhered.

SUPPLY & PACKAGING

- 1 m x 20 m Rolls

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water
- Keep rolls in an upright position
- Do not stack more than 2 pallets

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

ASAD P

Self-Adhering Waterproofing Sheet Membranes
Reinforced with Polyester Carrier

Pressure-Sensitive
Reinforced Waterproofing Membranes

REF: MFG-ASDP-0224

CHARACTERISTICS

PROPERTY	TYPICAL VALUE		TEST METHOD
	ASAD 1.6 P	ASAD 2.0 P	
Tensile strength, N/5cm Longitudinal Transverse	550 400	600 400	UEAtc, M.O.A.T 31
Elongation at break, % Longitudinal Transverse	40 40	40 40	UEAtc, M.O.A.T 31
Lap-joint strength, N/5cm Longitudinal Transverse	>550 >400	>600 >400	UEAtc, M.O.A.T 31
Tear strength, N Longitudinal Transverse	100 120	100 120	UEAtc, M.O.A.T 31 ASTM D 4073
Peel strength, Kg/cm to primed concrete to self	10.0 9.0	11.0 10.0	ASTM D 1000
Resistance to puncture, N	700		ASTM E 154
Hydrostatic pressure @7 bar	No leakage		DIN 52123
Low temperature flexibility, °C (Membrane)	(-25)		UEAtc MOAT 31
Heat Resistance, 100 °C	No flowing		UEAtc MOAT 31
Moisture Vapour Transmission	< 2.0 g/m ² /24 hours		ASTM E 96
Water absorption, % @24 hrs (Film)	< 0.2		ASTM D 570
VOC, g/L	< 50		ASTM D3960/D2369
Resistance to Aging after 2000 hours (Accelerated Weather-O-Meter)	No Deterioration		ASTM D 4799

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ASAD P

Self-Adhering Waterproofing Sheet Membranes
Reinforced with Polyester Carrier

Pressure-Sensitive
Waterproofing Membranes

REF: MFG-ASDP-0224

COATING ASPHALT PROPERTIES

PROPERTY	VALUE	TEST METHOD
Compound type	SBS- Self Adhesive Compound	—
Softening point (R&B)	>115°C	ASTM D 36
Penetration @ (25°C) 0.1mm	60 - 80	ASTM D 5
Elongation, %	>1000	MRDD- 10 (97)

PRESENTATION

ATTRIBUTE	RESULT	
	ASAD 1.6 P	ASAD 2.0 P
Thickness (nominal)	1.6 mm	2.0 mm
Unit weight (nominal)	1.8 Kg/m ²	2.3 Kg/m ²
Packing	Rolls packed and palletised in cardboard boxes, or without boxes	
Rolls / Pallet	16 (boxed), 23 (un-boxed)	
Roll length	20 m	

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المملكة العربية السعودية - الإمارات العربية المتحدة - الكويت - قطر - مصر

ASAD CLPE

Self-Adhering Waterproofing Sheet Membranes
Surfaced with Cross-Laminated High Density Polyethylene film

Pressure-Sensitive
Waterproofing Membranes

REF: MFG-ASDCLPE-0224

THIS PRODUCT

ASAD CLPE membranes are self-adhering cold-applied, bituminous, vapor barriers and waterproofing sheet membranes with a Cross-Laminated High Density Polyethylene film laminated onto a high performance SBS modified bitumen compound, while protected with a peel-off siliconized release paper/film on the bottom side. The layers of the modified bitumen comprise a uniquely formulated elastomeric compound which provide for high adhesion properties suitable for high or low temperature applications whereas the top side Cross-Laminated HDPE film provide high puncture resistance and stable elongation properties. ASAD CLPE membranes are used in various vertical and horizontal waterproofing applications, produced in different thickness and lengths to suit different projects specifications and requirements.

USES & APPLICATIONS

Used in a single layer as a waterproofing and damproofing membrane in:

- Podiums and Plaza decks
- Wet areas (bathrooms, kitchens)
- Tunnels
- Culverts
- Below-grade infrastructure elements
- Part of a two-ply assembly for vertical pre-applied and post-applied substructure waterproofing systems.
- Root barrier for light vegetation. For dense vegetation a layer of AWAZEL DIMPLE SHEET D-700 or D-850 must be added to the system assembly

SUPPLY & PACKAGING

- 1 m x 10 m Rolls (50 Rolls/pallet)
- 1 m x 20 m Rolls (16 Rolls/pallet)

FEATURES & ADVANTAGES

- Pressure-sensitive
- Self-adhering, fast to install
- Excellent physical and mechanical properties
- Cold applied, eliminates fire hazard (heating is not required)
- Remarkable resistance to aggressive attack of salts and chemicals
- Accommodates temperature fluctuations
- Excellent dimensional stability
- Excellent tear & puncture resistance

TYPICAL INSTALLATION PROCEDURES

- This membrane is installed by unrolling the membrane and peeling off the release siliconized film.
- The membrane- particularly at the overlaps- should be firmly pressed down using a rubber hand roller to insure proper sealing.
- Side-laps should be 5 cm to 10 cm while end-laps should be between 10 cm to 15 cm firmly pressed and adhered.
- Depending on application and substrate ASAD CLPE could be mechanically fastened.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



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TECHNICAL DATA SHEET

ASAD CLPE

Self-Adhering Waterproofing Sheet Membranes
Surfaced with Cross-Laminated High Density Polyethylene film

Pressure-Sensitive
Waterproofing Membranes

REF: MFG-ASDCLPE-0224

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile strength, N/mm ² (Film) Longitudinal Transverse	>45 >50	ASTM D 638
Tensile strength, N/5cm (Membrane) Longitudinal Transverse	>250 >280	DIN 52123
Elongation at break, % (Film) Longitudinal Transverse	230 250	ASTM D 638
Elongation at break, % (Membrane) Longitudinal Transverse	230 200	DIN 52123
Tear strength, N/mm Longitudinal Transverse	340 310	ASTM D 1004
Adhesion strength, Kg/cm Primed substrate Self	9.3 8.7	ASTM D 1000
Resistance to puncture, N	280	ASTM E 154
Hydrostatic pressure @7 bar	No leakage	DIN 52123
Environmental compliance	Confirms	ASTM D 543
Low temperature flexibility, °C (Membrane)	(-25)	UEAtc MOAT 31
Heat Resistance, 100 °C	No flowing	UEAtc MOAT 31
Moisture Vapour Transmission	0.16 g/m ² /24 hours	ASTM E 96
Water absorption, % @24 hrs (Film)	< 0.12	ASTM D 570
Crack bridging ability, mm	> 1.00	ASTM C 836
VOC, g/L	< 50	ASTM D3960/D2369
Resistance to Aging after 2000 hours (Accelerated Weather-O-Meter)	No Deterioration	ASTM D 4799

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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ASAD CLPE

Self-Adhering Waterproofing Sheet Membranes
Surfaced with Cross-Laminated High Density Polyethylene film

Pressure-Sensitive
Waterproofing Membranes

REF: MFG-ASDCLPE-0224

COATING ASPHALT PROPERTIES

PROPERTY	VALUE	TEST METHOD
Compound type	SBS- Self Adhesive Compound	—
Softening point (R&B)	>115°C	ASTM D 36
Penetration @ (25°C) 0.1mm	60 - 80	ASTM D 5
Elongation, %	>1000	MRDD- 10 (97)

PRESENTATION

ATTRIBUTE	RESULT	
	ASAD 1.6 CLPE	ASAD 2.0 CLPE
Thickness (nominal)	1.6 mm	2.0 mm
Unit weight (nominal)	1.8 Kg/m ²	2.3 Kg/m ²
Packing	Rolls packed and palletised in cardboard boxes	
Rolls / Pallet	16 and 50	
Roll length	20 and 10 m	

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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**SELF ADHERING
TAPES**



TABLE OF CONTENTS

FLASHGUARD 16-45

Aluminium Foil Surfaced Bituminous Self-Adhering Tape

Pressure-Sensitive
Detailing Tapes

REF: MNFG-FLSHGRD-0224

THIS PRODUCT

FLASHGUARD 16-45 is a pressure-sensitive, cold-applied, elastomeric, self-adhering tape designed with specially formulated rubberized bituminous compound surfaced with a durable UV resistant aluminium foil. FLASHGUARD 16-45 is easy to apply on various substrates such as concrete, metal and wood whether in new applications or for repair works over concrete, terrazzo, ceramics, tiles, and gutters. FLASHGUARD 16-45 suits fittings applications where material UV resistance is a mandate. The product is supplied in different widths where larger widths are suitable for infrastructure pipe dressing and below-grade waterproofing works. While the tape is surfaced with different aluminium colour shades, the underside is laminated with a release film for ease of application.

USES & APPLICATIONS

- Dressing around pipe penetrations, air vents, skylights
- Dressing around A/C duct insulation.
- Through window seaming
- Detailing works of waterproofing projects

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent tensile strength
- Fits multidirectional applications
- Cold applied.
- Excellent impact resistance
- Excellent resistance to cathodic disbanding
- Compatible with common pipe coatings

TYPICAL INSTALLATION PROCEDURES

- Prepare surfaces by removing all loose scale, rust or other foreign matter by wire brush or grit blasting. The surface must be clean, dry, and free of oils, grease, contaminations, or protrusions that may damage the tape during application
- Apply thin coat of AWAZEL PRIMER D-41 to all surfaces to be wrapped and allow to dry out for at least 12 hours prior to the application of FLASHGUARD 16-45
- The tapes can be applied by hand or machine to weld joints, bends, bare pipe lengths and pipe fittings.
- Align the tape properly to the application area, peel back the release film while applying pressure over during application
- For exposed applications to UV use AWAZEL's PU FLEX Polyurethane sealant for seaming around the tape
- For pipe dressing apply the tape in a spiral fashion with enough tension to make it conform
- Overlap each turn by at least 1 Inch (or 55% to achieve double thickness) or as per project design and specifications.
- Irregular surfaces such as valves, flanges, may require the use of a special moulding putty like AWAZEL PIPE MASTIC-C (refer to our Data Sheet for its technical details).



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FLASHGUARD 16-45

Aluminium Foil Surfaced Bituminous Self-Adhering Tape

Pressure-Sensitive
Detailing Tapes

REF: MNFG-FLSHGRD-0224

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Breaking strength, Film, N/mm	5.0	ASTM D 638
Tear strength, N	20	ASTM D 1004
Elongation at break, %	>25	BS 2782 DIN 52123
Puncture resistance, N-mm	145 - 65	ASTM E 154
Adhesion peel strength, N/mm To primed steel To steel	6.0 5.5	ASTM D 1000
Dielectric strength, kV	25	BS 2782
Impact strength, Nm	5.0	ASTM G 14
Max. Service temperature, °C	60	—
Recommended holiday test voltage: Single layer, kV Double layer, kV	10 15	—

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PRESENTATION

ATTRIBUTE	RESULT	TEST METHOD
Thickness, mm: Backing Adhesive Total	0.045 1.605 1.65	UEAtc, M.O.A.T 31 ASTM D 1000
Weight, Kg/m ²	1.8	M.O.A.T 31
Roll widths, mm	50, 100, 150 & 225 (other widths available upon request)	—
Roll length, m	10 / 20	—

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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**DRAINAGE AND
PROTECTION BOARDS**

PLAIN
LAMINATED WITH GEOTEXTILE FABRIC



TABLE OF CONTENTS

DIMPLE SHEET D-600

HDPE Drainage Board & Anti-Root Barrier

Drainage &
Protection HDPE Sheets

REF: ABRD-D600-821

THIS PRODUCT

DIMPLE SHEET D-600 is a non-bio-degradable High-Density Polyethylene (HDPE) sheet designed with a special modular structure to suite multiple requirements in the construction industry particularly for landscaping and waterproofing applications. DIMPLE SHEET D-600 is produced in different cup sizes and dimensions to suit the needs of an array of applications in the construction, hardscape and softscape industries.

USES & APPLICATIONS

Used for water drainage and protection in the following application:

- Under soil in landscaping applications on roofs, terraces, plaza decks, general softscape and hardscape applications where required.
- Protection of waterproofing membranes prior to backfilling
- Reduction and dispersion of high hydrostatic pressure in below-grade waterproofing assemblies.
- Support panel for waterproofing membranes in below-grade waterproofing systems

SUPPLY & PACKAGING

- 2m x 12m Roll

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Store in a dry place, protected from, sun heat & water.

FEATURES & ADVANTAGES

- Excellent drainage & root barrier performance
- Stops unwanted, invasive growth and moment of roots in infrastructure foundation
- Containment of roots in planter boxes
- Permanent air gap for the underground structure
- Excellent compressive strength
- Non-bio-degradable

TYPICAL INSTALLATION PROCEDURES

For Landscaping Applications

- Unroll the AWAZEL DIMPLE SHEET D-600 and lay loose over the membrane covering the entire area where waterproofing membrane is extended and where landscaping shall be laid.

For Protection Over Waterproofing Membrane:

- Adhere to membrane using AWAZEL STICK-O-TAPE-R 1.2 mm double-sided adhesive tape or compatible adhesive.
- Adhere one side of the tape all-round the perimeter of the installed membrane edges after removing the silicone release film of STICK-O-TAPE-R 1.2
- Strip the other side silicone release film and install AWAZEL DIMPLE SHEET D-600 while applying firm pressure over the taped locations.

Overlapping

- Using AWAZEL STICK-O-TAPE-R 1.2 mm double-sided adhesive tape install the tape all along on the laid layer of AWAZEL DIMPLE SHEET D-600 then apply the adjacent sheet and while applying firm pressure over the taped locations.
- Work with the Dimple sheet to cover all detailing elements and cut over the drain opening to allow for a proper flow of drained water.
- Drainage board should be extended on elevations up to the level of the planter soil.



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DIMPLE SHEET D-600

HDPE Drainage Board & Anti-Root Barrier

Drainage & Protection HDPE Sheets

REF: ABRD-D600-821

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Dimple height, mm (ASTM D 1777)	10
Air gap between dimples, l/m ²	7.9
Compressive strength, kN/m ² (ASTM D 6364)	400
Resistance to chemicals	Pass (resistant to most chemicals in the soil)
Resistance to rotting	Pass
Resistance to root penetration	Pass
Service Temperature, °C	-40 to +80
Material weight, g/m ²	600

NOTE:

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(2) Compliance: ASTM D 1777, D 6364, D 146

APPLICATION ATTRIBUTES

ATTRIBUTE	RESULT
Structure	High Density Polyethylene Sheet
Color	Dimple Sheet: Green / Blue



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المملكة العربية السعودية - الإمارات العربية المتحدة - الكويت - قطر - مصر

DIMPLE SHEET D-700

HDPE Drainage Board & Root-barrier,
Thermally Bonded to a Non-Woven Calendared Polypropylene Fabric

Drainage & Protection HDPE Sheets
Laminated with Filter Fabric

REF: ABRD-D700-821

THIS PRODUCT

DIMPLE SHEET D-700 is a non-bio-degradable High-Density Polyethylene (HDPE) sheet designed with a special modular structure to suite multiple requirements in the construction industry particularly as a root-barrier for landscaping and waterproofing applications. DIMPLE SHEET D-700 is thermally bonded to a calendared non-woven polypropylene filter fabric to serve the dual purpose of drainage and filtration which helps avoid clogging of the drainage system. The non-woven geotextile fabric laminating the HDPE sheet allows for consistent ventilation of the soil especially under dense vegetation assemblies whether on roofs or in planter boxes.

USES & APPLICATIONS

Used for water drainage and protection in the following application:

- Root-barrier under soil in landscaping applications on roofs, terraces, plaza decks, general softscape and hardscape applications where required.
- Protection of waterproofing membranes prior to backfilling
- Reduction and dispersion of high hydrostatic pressure in below-grade waterproofing assemblies.
- Filter panel supporting drainage system.

SUPPLY & PACKAGING

- 2m x 8 m Roll

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent drainage & root barrier performance
- Stops unwanted, invasive growth and moment of roots in infrastructure foundation
- Containment of roots in planter boxes
- Permanent air gap for the underground structure
- Excellent compressive strength
- Non-bio-degradable

TYPICAL INSTALLATION PROCEDURES

For Landscaping Applications

- Unroll the AWAZEL DIMPLE SHEET D-850 and lay loose over the membrane covering the entire area where waterproofing membrane is extended and where landscaping shall be laid.

For Protection Over Waterproofing Membrane

- Adhere to membrane using AWAZEL STICK-O-TAPE-R 1.2 mm double-sided adhesive tape or compatible adhesives.
- Adhere one side of the tape all-round the perimeter of the installed membrane edges after removing the silicone release film of STICK-O-TAPE-R 1.2
- Strip the other side silicone release film and install AWAZEL DIMPLE SHEET D-850 while applying firm pressure over the taped locations.

Overlapping

- Using AWAZEL STICK-O-TAPE-R 1.2 mm double-sided adhesive tape install the tape all along on the laid layer of AWAZEL DIMPLE SHEET D-850 then apply the adjacent sheet and while applying firm pressure over the taped locations.
- Work with the Dimple sheet to cover all detailing elements and cut over the drain opening to allow for a proper flow of drained water.
- Drainage board should be extended on elevations up to the level of the planter soil.

STORAGE & HANDLING

- Store in a dry place, protected from, sun heat & water.



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DIMPLE SHEET D-700

HDPE Drainage Board & Root-barrier,
Thermally Bonded to a Non-Woven Calendared Polypropylene Fabric

Drainage & Protection HDPE Sheets
Laminated with Filter Fabric

REF: ABRD-D700-821

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Dimple height, mm (ASTM D 1777)	10
Air gap between dimples, l/m ²	7.9
Drainage capacity	4.8 l/s/m=288 l/min/m=17,288 l/h/m
Compressive strength, kN/m ² (ASTM D 6364)	420
Resistance to chemicals	Pass (resistant to most chemicals in the soil)
Resistance to rotting	Pass
Resistance to root penetration	Pass
Service Temperature, °C	-40 to +80
Material weight, g/m ²	Dimple Sheet: 600 Geotextile fabric: 100

NOTE:

(1) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

(2) Compliance: ASTM D 1777, D 6364, D 146

APPLICATION ATTRIBUTES

ATTRIBUTE	RESULT
Structure	High Density Polyethylene Sheet Laminated with Polypropylene Geotextile Fabric
Color	Dimple Sheet: Green / Blue Geotextile: White / Grey



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DIMPLE SHEET D-850

HDPE Drainage Board & Root-barrier,
Thermally Bonded to a Non-Woven Calendared Polypropylene Fabric

Drainage & Protection HDPE Sheets
Laminated with Filter Fabric

REF: ABRD-850-1024

THIS PRODUCT

DIMPLE SHEET D-850 is a non-bio-degradable High-Density Polyethylene (HDPE) sheet designed with a special modular structure to suite multiple requirements in the construction industry particularly as a root-barrier for landscaping and waterproofing applications. DIMPLE SHEET D-850 is thermally bonded to a calendared non-woven polypropylene filter fabric to serve the dual purpose of drainage and filtration which helps avoid clogging of the drainage system. The non-woven geotextile fabric laminating the HDPE sheet allows for consistent ventilation of the soil especially under dense vegetation assemblies whether on roofs or in planter boxes.

USES & APPLICATIONS

Used for water drainage and protection in the following application:

- Root-barrier under soil in landscaping applications on roofs, terraces, plaza decks, general softscape and hardscape applications where required.
- Protection of waterproofing membranes prior to backfilling
- Reduction and dispersion of high hydrostatic pressure in below-grade waterproofing assemblies.
- Filter panel supporting drainage system.

SUPPLY & PACKAGING

- 2m x 8 m Roll

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent drainage & root barrier performance
- Stops unwanted, invasive growth and moment of roots in infrastructure foundation
- Containment of roots in planter boxes
- Permanent air gap for the underground structure
- Excellent compressive strength
- Non-bio-degradable

TYPICAL INSTALLATION PROCEDURES

For Landscaping Applications

- Unroll the AWAZEL DIMPLE SHEET D-850 and lay loose over the membrane covering the entire area where waterproofing membrane is extended and where landscaping shall be laid.

For Protection Over Waterproofing Membrane

- Adhere to membrane using AWAZEL STICK-O-TAPE-R 1.2 mm double-sided adhesive tape or compatible adhesives.
- Adhere one side of the tape all-round the perimeter of the installed membrane edges after removing the silicone release film of STICK-O-TAPE-R 1.2
- Strip the other side silicone release film and install AWAZEL DIMPLE SHEET D-850 while applying firm pressure over the taped locations.

Overlapping

- Using AWAZEL STICK-O-TAPE-R 1.2 mm double-sided adhesive tape install the tape all along on the laid layer of AWAZEL DIMPLE SHEET D-850 then apply the adjacent sheet and while applying firm pressure over the taped locations.
- Work with the Dimple sheet to cover all detailing elements and cut over the drain opening to allow for a proper flow of drained water.
- Drainage board should be extended on elevations up to the level of the planter soil.

STORAGE & HANDLING

- Store in a dry place, protected from, sun heat & water.



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DIMPLE SHEET D-850

HDPE Drainage Board & Root-barrier,
Thermally Bonded to a Non-Woven Calendared Polypropylene Fabric

Drainage & Protection HDPE Sheets
Laminated with Filter Fabric

REF: ABRD-D850-1024

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Dimple height, mm (ASTM D 1777)	10
Air gap between dimples, l/m ²	7.9
Drainage capacity	4.8 l/s/m=288 l/min/m=17,288 l/h/m
Compressive strength, kN/m ² (ASTM D 6364)	490 - 510
Resistance to chemicals	Pass (resistant to most chemicals in the soil)
Resistance to rotting	Pass
Resistance to root penetration	Pass
Service Temperature, °C	-40 to +80
Material weight, g/m ²	Dimple Sheet: 715 Geotextile fabric: 135
Puncture resistance, N	> 900

NOTE:

(1) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

(2) Compliance: ASTM D 1777, D 6364, D 146

APPLICATION ATTRIBUTES

ATTRIBUTE	RESULT
Structure	High Density Polyethelene Sheet Laminated with Polypropylene Geotex. le Fabric
Color	Dimple Sheet: Silver Geotextile: White / Grey



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

LIQUID MEMBRANES DAMPROOFING

WATER-BASE BITUMEN EMULSION
SOLVENT-BASE BITUMEN COATINGS



TABLE OF CONTENTS

TECHNICAL DATA SHEET

Formerly Known as "AWAZEL AWATEX RBE 6500"

AWAZEPROOF WB RBC 100

Cold-Applied, Rubberized Dampproofing Coating

Compliance: Manufactured from Base Asphalt Complying with ASTM D 449

Water-Base Rubberized Dampproofing Coating

REF: MNFG-CTNG-WBRBC100-0523

THIS PRODUCT

AWAZEPROOF WB RBC 100 is a high-performance, waterbased, cold-applied, bituminous compound reinforced with mineral stabilizers impregnated with rubber using hard bitumen, special synthetic resins, and polymers. AWAZEPROOF WB RBC 100 withstands relatively high temperatures and is used for various damp-proofing applications in the construction industry for substructure or superstructure applications. It can also be used as protective coating over various substrates such as concrete, wood, metal, or masonry. When used on structures below ground, it gives protection against attack by aggressive salts. When properly applied AWAZEPROOF WB RBC 100 cures to a tough, resilient, and elastic film that is resistant to most weathering conditions. When used for wet area damp-proofing forms a consistent vapour barrier under tiles.

USES & APPLICATIONS

Dampproofing Applications for:

- Substructure
- Superstructure
- Wet areas under tiles

Protective coating over:

- Wood substrates
- Metal substrates
- Masonry

SUPPLY & PACKAGING

- 18 Kg Pail
- 180 Kg Drum

COVERAGE RATE

- 0.5 kg/m²/coat (500- 600 microns)

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area, away from direct sunlight between 5°C and 45°C.

FEATURES & ADVANTAGES

- Single component
- Non-toxic
- Fast and simple application
- Resistant to weathering
- Resistant to mild acids and alkalis
- Resistant to water and vapour
- Seamless application

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.
- Apply a priming coat by diluting AWAZEPROOF WB RBC 100 with 20% clean water and coat by roller over the substrate at the rate of 0.2 – 0.3 Kg/m², 12- 24 hours prior to applying the main liquid membrane.
- Follow by applying a first coat of AWAZEPROOF WB RBC 100 at the rate of 0.5 Kg/m²/coat covering the entire area allocated for dampproofing.
- Once the first coat has dried out (24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF-LIFE

- 12 months when stored properly as mentioned above under moderate temperature.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL AWATEX RBE 6500"

AWAZEPROOF WB RBC 100

Cold-Applied, Rubberized Dampproofing Coating

Compliance: Manufactured from Base Asphalt Complying with ASTM D 449

Water-Base Rubberized
Dampproofing Coating

REF: MNFG-CTNG-WBRBC100-0523

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Density @ 25°C, Kg/L	1.0-1.1	ASTM D 6937- 16
Solid Content , %	60	ASTM D 2939-03
Rubber Content , %	10	—
pH , Value	7 - 14	ASTM D 1293
Adhesion to concrete	Excellent	—
Resistance to water	No blistering or re- emulsification	ASTM C 1202
Elastic recovery	Excellent	ASTM D 6084
Resistance to salts, Mild acids and alkalis	Excellent	ASTM C 1202:2012
Dry Time	Touch dry 3-4 hours@35°C Intercoat time 12-24 hours@35°C	(Depends on ambient temperature, humidity and layer thickness)

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

APPLICATION ATTRIBUTES

ATTRIBUTE	
Appearance: Wet Dry	Dark brown emulsion Black Film
Emulsion Type	Rubberized



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL LIQUID MEMBRANE (ALM)"

AWAZEPROOF SB RBC 100

Cold-Applied, Rubberized, SBS Modified Bitumen, Waterproofing Liquid Membrane
Compliance: Manufactured from Base Asphalt Complying with ASTM D 449

Solvent-Base

Rubberized Waterproofing Liquid Membrane

REF: MNFG-LMBRN-SVRBC100-0523

THIS PRODUCT

AWAZEPROOF SB RBC 100 is a high-performance, solvent-based, cold-applied, elastomeric, bituminous compound reinforced with antioxidants and impregnated with synthetic rubber using hard bitumen, special synthetic resins, and polymers. AWAZEPROOF SB RBC 100 withstands relatively high temperatures and is used for various dampproofing and waterproofing applications for both substructure and superstructure applications in the construction industry. It can also be used as a protective coating over various substrates such as concrete, wood, metal, or masonry. When used on structures below ground, it gives a long-lasting protection against attack by aggressive chemicals and salts. When properly applied AWAZEPROOF SB RBC 100 cures to a tough, resilient, and elastic film that is resistant to most weathering conditions. When used for wet area dampproofing forms a consistent vapour barrier under tiles.

USES & APPLICATIONS

Waterproofing & Dampproofing Applications for:

- Sub-structure
- Super-structure
- Roofing
- Walls
- Floors

SUBSTRATES

- Concrete
- Wood
- Metal
- Masonry

SUPPLY & PACKAGING

- 18 Kg Pail

CONSUMPTION

- 1.0 kg / m² / coat (600 microns DFT for 2 coats)

FEATURES & ADVANTAGES

- Single component
- Fast and simple application
- Resistant to weathering
- Resistant to acids and alkalis
- Resistant to water and vapour
- Resistant to structural movements
- Elastic, seamless application

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION

- The surface must be dry clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.

STIRRING

- Material shall be stirred adequately for a minimum of 3 minutes by a slow-speed drill (300 rpm – 400 rpm) prior to application.

APPLICATION

- For ideal application apply a priming coat of AWAZEL PRIMER D41 over the substrate at the rate of 0.2 Kg – 0.3 Kg/m², 12 -24 hours prior to applying AWAZEPROOF SB RBC 100 liquid membrane. This is optional depending on substrate condition.
- Follow by applying a first coat of AWAZEPROOF SB RBC 100 at the rate of 1.0 Kg/m² covering the entire area allocated for waterproofing.
- Once the first coat has dried out (24 hours) apply the second coat – perpendicular to the first coat – at the same coverage rate.

SHELF LIFE

- 12-18 months when stored properly as mentioned above under moderate temperature.

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area between 5°C and 45°C, away from direct sunlight.
- Keep away from flame source.
- Containers should be kept tightly covered to avoid evaporation of solvents.



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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL LIQUID MEMBRANE (ALM)"

AWAZEPROOF SB RBC 100

Cold-Applied, Rubberized, SBS Modified Bitumen Waterproofing Liquid Membrane

Compliance: Manufactured from Base Asphalt Complying with ASTM D 449

Solvent-Base
Rubberized Waterproofing Liquid Membrane

REF: MNFG-LMBRN-SVRBC100-0523

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Brookfield Viscosity at 25° C, S4, 20 rpm, cPs	>5,000	ASTM D 4402
Flexibility at -20 to -25° C (base compound)	No Cracking	DIN 52123
Heat Resistance at 60° C (after drying)	No Sagging	DIN 52123
Drying time to through, hours	36 - 72	Physical test
Adhesion to dry surface	Excellent	ASTM D 3409
Non Volatile matter, %	>60	ASTM D 4479
Flash point (Tag open cup)	>25	ASTM D 3143
Rubber Content , %)	10	-

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZEL DAMPCOAT

Cold-Applied, General-Purpose Dampproofing Liquid Membrane

Compliance: Manufactured from Base Asphalt Complying with ASTM D 449, Type I

Cold-Applied Dampproofing Liquid Membranes

REF: MFG-AWDCT-SB-0223

THIS PRODUCT

AWAZEL DAMPCOAT is a cold applied bituminous dampproofing coating, formulated with high quality asphalt and a select-blend of petroleum solvents. After drying, AWAZEL DAMPCOAT forms a seamless, flexible and durable film that resists ingress of water and the attack of weather, salts, water, mild acids and alkalis. AWAZEL DAMPCOAT is suitable for application over concrete and metal substrates.

USES & APPLICATIONS

- Rejuvenation of existing roofs as a re-saturant.
- Waterproofing foundations and isolated footings
- Waterproofing behind cladding as a vapour barrier
- Waterproofing liner for spouts and gutters

SUPPLY & PACKAGING

- 180 Kg Drums
- 18 Kg Pails

COVERAGE

- 0.45- 0.65 kg/m² (300 – 350 DFT/coat)

STORAGE & HANDLING

- Material should be kept in original packing in a properly ventilated shaded area.
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Resistant to salts, acids, and alkalis
- Seamless application
- Primerless
- Damp coat behind marble or natural stone
- Cold applied, easy to apply, does not need thinning or heating.
- Excellent bonding capability

GENERAL INSTALLATION GUIDELINES

Surface Preparation: The surface must be clean and free of dirt, dust oil, grease.

- All the loose particles and protrusions must be removed with suitable means.

Application: Stir AWAZEL DAMPCOAT for 3 minutes using a slow-speed drill 300 rpm.

- Depending on the substrate's porosity apply a coat of AWAZEL DAMPCOAT at the coverage rate of 0.45 - 0.65 kg/m²
- If required; two coats of AWAZEL DAMPCOAT may be applied. Once the first coat has dried out (24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate.

SHELF LIFE

- 12 months from date of production when properly stored in original sealed containers.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZEL DAMPCOAT

Cold-Applied, General-Purpose Dampproofing Liquid Membrane

Compliance: Manufactured from Base Asphalt Complying with ASTM D 449, Type I

**Cold-Applied Dampproofing
Liquid Membranes**

REF: MFG-AWDCT-SB-0223

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Brookfield Viscosity at 50°C, S29, 20 rpm, CPs	300 - 700	Brookfield Viscometer ASTM D 2196
Drying time to touch, hours	4 - 5	MRDD- 13(97)
Drying time to through, hours	30 - 48	MRDD- 13(97)
Density at 25°C, g/cc	0.91 - 0.96	ASTM D 70
Adhesion to dry surface	Excellent	Visual
Resistance to water	Good	ASTM D 4779
Test on residue from distillation Softening Point, °C Penetration at 25°C, 0.1mm Ductility at 25°C, cm	70 - 80 25 - 35 15 (minimum)	ASTM D 36 ASTM D 5 ASTM D 113

NOTES:

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2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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FOUNDATION FIBROUS ASPHALT (FFA)

Cold-Applied, Fiber-Reinforced Dampproofing Compound

Compliance: ASTM D 4479

Manufactured from Base Asphalt Complying with ASTM D 449, Type I

Solvent-Base
Dampproofing Compound

REF: MNF-CTNG-FFA-0523

THIS PRODUCT

FOUNDATION FIBROUS ASPHALT (FFA) is a solvent-based, cold-applied, cut-back asphalt bituminous compound reinforced with mineral stabilizers and fibres. FFA can withstand relatively high temperatures and is used in dampproofing of foundations and isolated footings. It can also be used as protective coatings over various substrates such as wood, metal, masonry, or concrete surfaces. When used on structures below ground, it gives protection against attack by aggressive salts. When properly applied FOUNDATION FIBROUS ASPHALT cures to a tough, resilient, and elastic film resistant to most weathering conditions.

USES & APPLICATIONS

Dampproofing Applications for:

- Isolated footings
- Superstructure

SUPPLY & PACKAGING

- 180 kg drums
- 18 Kg Pails

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at an a temperatures between 10~30°C.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.
- Strict measures must be taken to prohibit smoking within the storage vicinity.
- Open container spout only and do not open container lid to minimize the evaporation.

FEATURES & ADVANTAGES

- Resistant to solvents and acids
- Resistant to weathering
- Resistant to water and vapour
- Simple application

GENERAL INSTALLATION GUIDELINES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.
- AWAZEL PRIMER D-41 shall be applied over substrate 12-24 hours prior to applying the liquid membrane.
- Apply AWAZEL PRIMER D-41 at the recommended coverage rate of 0.2 Kg – 0.3 Kg / m² (Stir material well for at least 2 minutes prior to application)
- Follow by applying a first coat of FOUNDATION FIBROUS ASPHALT covering the entire area allocated for waterproofing (by squeegee or roller) at the rate of 1 Kg/m². Stir material well for at least 2 minutes prior to application.
- Once the first coat has dried out (24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate.
- Depending on substrate condition, additional coats maybe applied subject to approval by The Engineer.

CONSUMPTION

- 2 kg/m² to achieve 1 mm dry film thickness



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FOUNDATION FIBROUS ASPHALT (FFA)

Cold-Applied, Fiber-Reinforced Dampproofing Compound

Compliance: ASTM D 4479

Manufactured from Base Asphalt Complying with ASTM D 449, Type I

Solvent-Base
Dampproofing Compound

REF: MNF-CTNG-FFA-0523

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Workability / Consistency	Suitable for application by squeegee, brush or roller at a rate of 2 Kg/m ² on prepared roofing, metal surfaces and Saturated felt at an ambient temperature above 10°C.	ASTM D 4479
Behaviour at 60°C	No blistering and sag or no sliding greater than 6mm	ASTM D 4479
Pliability at 0°C	No cracking or separation of the coating from the metal	ASTM D 4579
Asphalt Content, %	>40	ASTM D 6511
VOC, g/L	288 - 300	ASTM D 3960 USEPA 24
Water Content	None	ASTM D 6511
Mineral & Other Stabilizers, %	10 - 25	ASTM D 6511
Resistance to Water	Resistant	Immersion
Adhesion to Concrete	Excellent	Physical Test
Flash Point, °C	>40	ASTM D 92
Brookfield Viscosity at 25°C, S4, 20 rpm, CPS	>2000	ASTM D 2196

NOTES:

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AWATEX RBE 6500

Cold-Applied, Fiber-Reinforced Dampproofing Coating

Water-Base
Dampproofing Coating

REF:COMM-CTNG-RB6500-0523

THIS PRODUCT

AWATEX RBE 6500 is a water-based, cold-applied, bituminous compound reinforced with mineral stabilizers and fibres. AWATEX RBE 6500 withstands relatively high temperatures and is used in dampproofing of foundations and isolated footings. It can also be used as protective coatings over various substrates such as wood, metal, masonry, or concrete surfaces. When used on structures below ground, it gives protection against attack by aggressive salts. When properly applied AWATEX RBE 6500 cures to a tough, resilient, and elastic film that is resistant to most weathering conditions.

USES & APPLICATIONS

Dampproofing Applications for:

- Isolated footings
- Superstructure

Protective coating over:

- Wood substrates
- Metal substrates
- Masonry

SUPPLY & PACKAGING

- 15 , 20 liters Pail
- 200 liters Drum

COVERAGE RATE

- 0.5 kg/m²/coat (500- 600 microns)

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area, away from direct sunlight between 5°C and 45°C.

SHELF-LIFE

- 12 months when stored properly as mentioned above under moderate temperature.

FEATURES & ADVANTAGES

- Single component
- Non-toxic
- Fast and simple application
- Resistant to weathering
- Resistant to mild acids and alkalis
- Resistant to water and vapour

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.
- Apply a priming coat by diluting AWATEX RBE 6500 with 20% clean water and coat by roller over the substrate at the rate of 0.2 – 0.3 L/m², 12 - 24 hours prior to applying the main liquid membrane.
- Follow by applying a first coat of AWATEX RBE 6500 at the rate of 0.5 Kg/m²/coat covering the entire area allocated for dampproofing
- Once the first coat has dried out (24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.



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TECHNICAL DATA SHEET

AWATEX RBE 6500

Cold-Applied, Fiber-Reinforced Dampproofing Coating

Water-Base
Dampproofing Coating

REF:COMM-CTNG-RB6500-0523

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Density @ 25°C, Kg/L	1.0-1.1	ASTM D 6937- 16
Solid Content , %	60	ASTM D 2939-03
Rubber Content , %	10	—
pH , Value	7 - 14	ASTM D 1293
Adhesion to concrete	Excellent	—
Resistance to water	No blistering or re- emulsification	ASTM C 1202
Elastic recovery	Excellent	ASTM D6084
Resistance to salts, Mild acids and alkalis	Excellent	ASTM C 1202:2012
Dry Time	Touch dry 3-4 hours@35°C Intercoat time 12-24 hours@35°C	(Depends on ambient temperature, humidity and layer thickness)

*NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.*

APPLICATION ATTRIBUTES

ATTRIBUTE	
Appearance: Wet Dry	Dark brown emulsion Black Film
Emulsion Type	Rubberized



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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**SHEET MEMBRANES
DAMPROOFING**

DAMPROOFING COURSE MAMBRANE



TABLE OF CONTENTS

BLOCKSHIELD DPC-C

Dampproofing Course Membrane

Compliance: BS 6398

Dampproofing Course Membrane

REF: MNFG-AWZBCSHLDDPCC-062023

THIS PRODUCT

AWAZEL BLOCKSHIELD DPC-C is a prefabricated moisture and water-resistant dampproofing membrane manufactured from a modified bitumen compound reinforced with a compound-base composite mat and surfaced with high-density Polyethylene film on both sides. BLOCKSHIELD DPC-C contains a special polymer that extends its flexibility at low temperature and heat resistance at high temperature to the finished membrane. BLOCKSHIELD DPC-C is specially designed to act as a load-bearing barrier that accommodates the substantial excessive crushing strength movement of the wall loading under structural pressure thus prevents the ingress of water and vapor from the exterior to the interior of the structure or from the ground upwards into the structure. It can be used for both horizontal and vertical damp-proofing applications.

USES & APPLICATIONS

- Dampproofing Course

SUPPLY & PACKAGING

Supplied in pre-cut rolls:

- WIDTH: 10, 15, 20, 25 & 30 cm
- LENGTH: 10 m
- THICKNESS: 3.0 mm

FEATURES & ADVANTAGES

- Durable and robust
- Simple and fast application
- Impact resistant
- Meets the requirements of BS 6398

TYPICAL INSTALLATION PROCEDURES

- BLOCK SHIELD is installed at the construction stage, during the erection of the brick work, block work or masonry wall. BLOCKSHIELD DPC-C should be laid through the full width of the wall and should be laid on an even mortar bed.
- Overlapping should be done to the same width of the membrane at minimum overlap 100 mm.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water
- Keep rolls in an upright position
- Do not stack more than 2 pallets

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.



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TECHNICAL DATA SHEET

BLOCKSHIELD DPC-C

Damproofing Course Membrane

Compliance: BS 6398

Damproofing
Course Membrane

REF: MNFG-AWZBCSHLDDPCC-062023

CHARACTERISTICS

PROPERTY	TYPICAL VALUE			TEST METHOD
	BS DPC 16C	BS DPC 20C	BS DPC 30C	
Unit weight, Kg/m ²	1.6 - 1.7	2.1 - 2.3	3.2 - 3.4	ASTM D 5147
Reinforcement, g/m ² (Composite Mat)		100 - 110		UEAtc, M.O.A.T 30
Tensile strength, N/5cm Longitudinal Transverse	300 150	350 200	400 250	ASTM D 5147 ASTM D 146
Tear Resistance, N Longitudinal Transverse	200 100	250 150	350 200	ASTM D 4073
Cold flexibility @ 0 °C to -5 °C		No cracking		UEAtc, M.O.A.T 30
Heat Resistance @ (135°C)		No flowing		UEAtc, M.O.A.T 30

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COATING ASPHALT PROPERTIES

PROPERTY	VALUE	TEST METHOD
Compound type	Polymer Modified Asphalt	–
Softening point (R&B)	>140°C	ASTM D 36
Penetration @ (25°C) 0.1mm	15 - 30	ASTM D 5



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

LIQUID MEMBRANES WATERPROOFING

WATER-BASE BITUMEN EMULSION
SOLVENT-BASE BITUMEN COATINGS



TABLE OF CONTENTS

TECHNICAL DATA SHEET

Formerly Known as "AWAZEL AWATEX RBE 6510"

AWAZEPROOF WB RBC 1000

Cold-Applied, Rubberized Waterproofing Bituminous Emulsion
Compliance: Manufactured from Base Asphalt Complying with ASTM D 449

THIS PRODUCT

AWAZEPROOF WB RBC 1000 is a high-performance, non-fibrous, water-based, cold-applied, SBS modified bitumen emulsion compound reinforced with mineral stabilizers impregnated with rubber using hard bitumen, special synthetic resins, and polymers. AWAZEPROOF WB RBC 1000 withstands relatively high temperatures and is used for various waterproofing applications in the construction industry on substructures or superstructures. It can also be used as a protective coating over various substrates such as concrete, wood, metal, or masonry. When used on structures below ground, it gives protection against attack by aggressive salts. When properly applied AWAZEPROOF WB RBC 1000 cures to a tough, resilient, and elastic film that is resistant to most weathering conditions. When used for wet area waterproofing, it forms a consistent vapour barrier under tiles.

USES & APPLICATIONS

Dampproofing Applications for:

- Substructure
- Superstructure
- Wet areas under tiles

Protective coating over:

- Wood substrates
- Metal substrates
- Masonry

SUPPLY & PACKAGING

- 18 Kg Pail
- 180 Kg Drum

COVERAGE RATE

- 0.5- 0.8 kg/m²/coat to achieve 300- 500 microns thick DFT

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area, away from direct sunlight between 5°C and 45°C.

Water-Base Waterproofing Liquid Membrane

REF: MNFG-CTNG-WBRBE1000-1023

FEATURES & ADVANTAGES

- Cold-Applied
- Vapour Permeable (allows concrete to breathe)
- Reduced chloride penetration
- Single component
- Non-toxic
- Fast and simple application
- Resistant to weathering
- Resistant to mild acids and alkalis
- Resistant to water and vapour
- Resistant to structural movements
- Non-flammable
- Seamless application
- Highly elastic after drying

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.
- Apply a priming coat by diluting AWAZEPROOF WB RBC 1000 with 20-30 % clean water and coat by roller over the substrate at the rate of 0.2 – 0.3 Kg/m², 12- 24 hours prior to applying the main liquid membrane.
- Follow by applying a first coat of AWAZEPROOF WB RBC 1000 at the rate of 0.5-0.8 Kg/m²/coat covering the entire area allocated for dampproofing.
- Once the first coat has dried out well apply the second coat – perpendicular to the first coat – at the same consumption rate.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL AWATEX RBE 6510"

AWAZEPROOF WB RBC 1000

Cold-Applied, Rubberized Waterproofing Bituminous Emulsion

Compliance: Manufactured from Base Asphalt Complying with ASTM D 449

Water-Base

Waterproofing Liquid Membrane

REF: MNFG-CTNG-WBRBE1000-1023

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Specific gravity@ 25°C, g/L	1.1± 0.05	ASTM D 6937-16
Solid Content , [%]	> 65	ASTM D 2939-03
Tensile strength, [N/mm ²]	> 0.2	ASTM D 412
Elongation, [%]	1000	ASTM D 412
Elastic recovery, [%]	>95	ASTM D412 – 98a Method A
Adhesion to concrete , [N/mm ²]	2.00	ASTM D 1000
Resistance to salts, mild acids and alkalis	Excellent	ASTM C 1202:2012
Dry Time	Touch dry 8-10 hours per coat @25°C	(Depends on ambient temperature, humidity and layer thickness)

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

APPLICATION ATTRIBUTES

ATTRIBUTE	TYPICAL VALUE
Appearance: Wet Dry	Dark brown emulsion Black Film
Emulsion Type	Rubberized
Rubber Content , [%]	25- 30 in dry film
Heat resistance @ 100°C	No flow
Low temperature flexibility, °C	-10
Water vapor transmission, [g/m ² /24hrs]	<0.2
Application temperature, °C	5 to 55
Resistance to water	No blistering or re- emulsification
Flash point	Non flammable

SHELF-LIFE

- 12 months when stored properly as mentioned above under moderate temperature.



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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL NON-IONIC EMULSIONS - NON FIBERED"

AWAZEPROOF WB NFC 100

Non-Fibred Emulsions for Horizontal Substrates

Compliance: ASTM D 1227, Type III Class 1

Manufactured from Base Asphalt Complying with ASTM D 449, Type I

Water-Base, Non-fibred
Dampproofing Liquid Emulsion
For Horizontal Applications

REF: MNFG-CTNG-WBNFC100-032024

THIS PRODUCT

AWAZEPROOF WB NFC 100 is a high performance, solvent-free, non-fibred emulsified bitumen coating manufactured from a premium blend of asphalt thoroughly emulsified with water during a sophisticated manufacturing process, to yield a durable and reliable dampproofing coating upon application. AWAZEPROOF WB NFC 100 is an excellent anti-humidity, vapour retarder suitable for application over various substrates such as concrete, metal, wood and masonry yet not suitable for application over gravel, rubber or PVC sheet roofing.

USES & APPLICATIONS

AWAZEPROOF WB NFC 100 is used as a dampproofing, vapour retarder over horizontal substrates in new or existing structures within the following applications:

- On flat roofs as a dampproofing layer within a built-up roofing or modified bitumen sheet membrane waterproofing system.
- On flat roofs as a base coat under gravel-surfaced roofs.
- On flat roofs as a base coat for reflective coatings.
- In substructures as dampproofing for isolated footings, below-grade foundations in the absence of high-water table or high hydrostatic pressure.
- In superstructures as dampproofing, anti-corrosive protection layer.
- As an adhesive for AWAZEL's extruded Polystyrene thermal insulation boards.

SUPPLY & PACKAGING

- 18 Kg Pail
- 180 Kg Drum

COVERAGE RATE

- 1.0-1.2 kg/m² / coat (to obtain approx. 500-700 microns DFT)

NOTE: Coverage depends on the condition and porosity of the substrate and the intended thickness per coat.

FEATURES & ADVANTAGES

- Excellent corrosion resistance
- Excellent vapour retardation
- Simple and easy application
- High resistance to the attack of chemicals, salts and alkalis present in the soil
- Odourless
- Environment friendly
- VOC compliant
- Flameless even in a liquid state

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.
- Cracks above 3 mm must be repaired prior to the application of AWAZEPROOF WB NFC 100 by using two coats of AWAZEPROOF WB RBC 100 rubberized emulsion reinforced with a layer of AWAZEL FABRIC (contact AWAZEL technical team for more information)
- For optimum results concrete substrates must be in SSD condition (Saturated Surface Dry)
- Depending on substrate condition and if a priming coat is required AWAZEPROOF WB NFC 100 maybe diluted with 1:1 by volume of clean water to form a priming coat
- Stir material properly prior to application using a mixer with slow-speed drill (300-400 rpm)
- Using a roller apply the first coat of AWAZEPROOF WB NFC 100 at the rate of 1.0-1.2 kg/m² / coat
- Once the first coat has dried out (12 - 24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate. NOTE: drying time depends on temperature conditions, cold weather may impede speed of drying.
- For more information on application please contact AWAZEL R&D or technical team.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL NON-IONIC EMULSIONS - NON FIBERED"

AWAZEPROOF WB NFC 100

Non-Fibred Emulsions for Horizontal Substrates

Compliance: ASTM D 1227, Type III Class 1

Manufactured from Base Asphalt Complying with ASTM D 449, Type I

Water-Base, Non-fibred
Dampproofing Liquid Emulsion
For Horizontal Applications

REF: MNFG-CTNG-WBNFC100-032024

CHARACTERISTICS

PROPERTY	NOMINAL VALUES	TEST METHOD
Weight per U.S. gallon, lb.	8.2 - 8.7	ASTM D 2939
Weight per liter, g	980 – 1040	ASTM D 2939
Residue by evaporation, %	47 - 53	ASTM D 2939
Ash content of residue, %	< 8	ASTM D 2939
Water content, %	< 53	ASTM D 244 / D95
Firm set, hours	24	ASTM D 2939

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF-LIFE

- 12 months when stored properly as mentioned above under moderate temperature.

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area, away from direct sunlight between 5°C and 45°C.

LIMITATIONS

- This product is for "covered" applications only and should not be left exposed to UV.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL NON-IONIC EMULSIONS-FIBERED"

AWAZEPROOF WB FFC 100

Fibred Emulsions for Vertical & Steep-Slope Substrates

Compliance: ASTM D 1227, Type II Class 1

Manufactured from Base Asphalt Complying with ASTM D 449, Type I

Water-Base

Dampproofing Liquid Emulsion
For Vertical & Steep-Slope Applications

REF: MNFG-CTNG-WBFFC100-032024

THIS PRODUCT

AWAZEPROOF WB FFC 100 is a high performance, solvent-free, fibred emulsified bitumen coating manufactured from a premium blend of asphalt thoroughly emulsified with water during a sophisticated manufacturing process, to yield a durable and reliable dampproofing coating upon application. AWAZEPROOF WB FFC 100 is reinforced with special reinforcing fibers that extend their properties to the bitumen blend. AWAZEPROOF WB FFC 100 is an excellent anti-humidity, vapour retarder suitable for application over various substrates such as concrete, metal, wood and masonry yet not suitable for application over gravel, rubber or PVC sheet roofing.

USES & APPLICATIONS

AWAZEPROOF WB FFC 100 is used as a dampproofing, vapour retarder over vertical and steep-slope substrates in new or existing structures within the following applications:

- On roofs as a dampproofing layer within a built-up roofing or modified bitumen sheet membrane waterproofing system.
- On roofs as a base coat under gravel-surfaced roofs.
- On roofs as a base coat for reflective coatings.
- In substructures as dampproofing for isolated footings, below-grade foundations and walls in the absence of high-water table or high hydrostatic pressure.
- In superstructures as dampproofing, anti-corrosive protection layer.
- Over cavity walls
- As an adhesive for AWAZEL's extruded Polystyrene thermal insulation boards.

SUPPLY & PACKAGING

- 18 Kg Pail
- 180 Kg Drum

FEATURES & ADVANTAGES

- Excellent corrosion resistance
- Excellent vapour retardation
- Simple and easy application
- High resistance to the attack of chemicals, salts and alkalis present in the soil
- Odourless
- Environment friendly
- VOC compliant
- Flameless even in a liquid state

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.
- Cracks above 3 mm must be repaired prior to the application of AWAZEPROOF WB FFC 100 by using two coats of AWAZEPROOF WB RBC 100 rubberized emulsion reinforced with a layer of AWAZEL FABRIC (contact AWAZEL technical team for more information).
- For optimum results concrete substrates must be in SSD condition (Saturated Surface Dry).
- Depending on substrate condition and if a priming coat is required AWAZEPROOF WB FFC 100 maybe diluted with 1:1 by volume of clean water to form a priming coat.
- Stir material properly prior to application using a mixer with slow-speed drill (300-400 rpm)
- Using a roller apply the first coat of AWAZEPROOF WB FFC 100 at the rate of 1.0 – 1.2 kg/m² / coat
- Once the first coat has dried out (12 - 24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate. NOTE: drying time depends on temperature conditions, cold weather may impede speed of drying.
- For more information on application please contact AWAZEL R&D or technical team.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

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AWAZEPROOF WB FFC 100

Fibred Emulsions for Vertical & Steep-Slope Substrates

Compliance: ASTM D 1227, Type II Class 1

Manufactured from Base Asphalt Complying with ASTM D 449, Type I

Water-Base,

Dampproofing Liquid Emulsion

For Vertical & Steep-Slope Applications

REF: MNFG-CTNG-WBFFC100-032024

CHARACTERISTICS

PROPERTY	NOMINAL VALUES	TEST METHOD
Weight per U.S. gallon, lb.	8.2 - 9.0	ASTM D 2939
Weight per liter, g	980 – 1080	ASTM D 2939
Residue by evaporation, %	45 - 55	ASTM D 2939
Ash content of residue, %	5 – 25	ASTM D 2939
Water content, %	< 55	ASTM D 244 / D95
Firm set, hours	24	ASTM D 2939

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

COVERAGE RATE

- 1.0-1.2 kg/m² / coat (to obtain approx. 500-700 microns DFT)

NOTE: Coverage depends on the condition and porosity of the substrate and the intended thickness per coat.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF-LIFE

- 12 months when stored properly as mentioned above under moderate temperature.

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area, away from direct sunlight between 5°C and 45°C.

LIMITATIONS

- This product is for "covered" applications only and should not be left exposed to UV.



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AWATEX RBE 3500

Rubberized Bitumen Damp-proofing & Waterproofing Emulsion

Water-base,
Rubberized Dampproofing &
Waterproofing Coating

REF: COMM-AWZRB3500-1123

THIS PRODUCT

AWAZEL AWATEX RBE 3500 is a non-fibred, bituminous dampproofing and waterproofing rubberized emulsion, manufactured by using a special hard bitumen and synthetic resins. AWAZEL AWATEX RBE 3500 dries out to a highly elastic, resilient, black, seamless flexible protective film with excellent adhesion properties to substrates.

USES & APPLICATIONS

AWAZEL AWATEX RBE 3500 can be used in various applications such as:

- Super-structure damp-proofing and waterproofing applications over concrete substrates.
- Sub-structure waterproofing - low to medium pressure and isolated footings (subject to application & consumption rate)
- As a flexible waterproof coating for balconies, terraces, plaza decks under tiles.
- As an anti-corrosion protective coating over metal substrates.

SUPPLY & PACKAGING

- 15 , 20 liters Pail
- 200 Liters Drum

COVERAGE RATE

- Damproofing: 0.33- 0.50 L/m²/coat
- Waterproofing: 1.0 L/m²/coat

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area, away from direct sunlight between 5°C and 45°C.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF-LIFE

- 12 months when stored properly as mentioned above under moderate temperature.

FEATURES & ADVANTAGES

- VOC compliant
- Nonflammable, Nontoxic
- Single component and easy to apply
- Highly resistant to the attack of chemicals and salts
- Highly flexible to resist structural movements
- Cold applied, can be used directly from the container
- Seamless coating (no overlaps)
- Accommodates movements
- High crack-bridging properties
- Suitable to be used over roofing PU Spray Foam

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- All loose particles and protrusions must be removed with suitable means.
- For concrete substrate: Keep in an SSD condition (Saturated Surface Dry) prior to application of AWAZEL AWATEX RBE 3500. To achieve an SSD condition, saturate the surface with water then remove ponding water keeping the surface moist to improve the application.
- PRIMING: Mix material well prior to application. Depending on the substrate's porosity apply a primer coat by diluting AWATEX RBE 3500 with 50% clean water.
- For metal substrate use AWAZEL PRIMER D 41 as primer coat.
- After drying of the primer coat, apply the first of two coats AWAZEL AWATEX RBE 3500 by trowel, brush, squeegee, or 2 roller at the recommended coverage rate of 0.5 L/m /coat. Additional consumption is mandatory for below-grade 2 applications (1L/m /coat).
- Once the first coat has dried out (24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate.
- *NOTE: The coverage rate may vary depending upon the porosity of the substrate. A dry film thickness of 500 - 600 microns shall be achieved while applying at a rate of 1L/m²/coat.*



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWATEX RBE 3500

Rubberized Bitumen Damp-proofing & Waterproofing Emulsion

Water-base,
Rubberized Dampproofing &
Waterproofing Coating

REF: COMM-AWZRB3500-1123

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Density @ 25°C, Kg/L	1.0-1.1	ASTM D 6937- 16
Solid Content , %	35	ASTM D 2939-03
Rubber Content , %	5% minimum in dry film	—
Flash point	Non- flammable	—
Adhesion to concrete	Excellent	—
Elastic recovery	Excellent	—
Resistance to water	No blistering or re- emulsification	ASTM C 1202
Resistance to salts, Mild acids and alkalis	Excellent	ASTM C 1202:2012
Dry Time	Touch dry 6-8 hours Full curing 24 hours	(Depends on ambient temperature, humidity and layer thickness)

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

APPLICATION ATTRIBUTES

ATTRIBUTE	
Appearance: Wet Dry	Dark brown emulsion Black Film
Emulsion Type	Rubberized



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AWAZEL COAT

Damp-proofing, Water base Bituminous Emulsion

Non-Fibrated
Bitumen Emulsion

REF: COMM_AWZCT_1123

THIS PRODUCT

AWAZEL COAT is a single component, non fibrated bitumen emulsion coating of brushing consistency that dries out to provide a consistent homogeneous, flexible, jointless waterproofing and protective membrane. AWAZEL COAT is easy to apply due to paintable consistency, suitable for new and old concrete.

USES & APPLICATIONS

General waterproofing and damp proofing of:

- Concrete
- Asbestos cement sheets,
- Roofing felts,
- wood
- Metal sheets
- Steelwork
- Steel pipes

SUPPLY & PACKAGING

- 15 Liters Pail
- 200 Liters Drum

COVERAGE RATE

- 0.3- 0.5 L/m²/coat (500- 600 microns)

STORAGE & HANDLING

- Keep in original packing in a shaded and well-ventilated area, away from direct sunlight between 5°C and 45°C.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF-LIFE

- 12 months when stored properly as mentioned above under moderate temperature.

FEATURES & ADVANTAGES

- Non-slumping.
- Multipurpose
- Solvent Free & VOC compliant
- Vapour permeable allows substrate to breath.
- Reduced chloride penetration due to hard impermeable surfaces.
- Simple and easy to use, no skilled labor required.
- Cold applied no heating required.

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: Surfaces to which AWAZEL COAT is to be applied must be clean and free of dirt, dust, rust or any other material which may impair adhesion. Where moss or lichen is present, remove sheets. Cut and reseal blisters in asphalt or roofing. Remove chippings other than those that form the surface of mineralised felt. surface of mineralised felt.
- PREPARATION: Stir material properly with a slow-speed drill for 2 – 3 minutes prior to application. Apply by brush or roller.
- PRIMING: AWAZEL COAT is a primerless coating. However, porous surfaces such as concrete and fiber reinforced cement should be primed using AWAZEL COAT diluted 1:6 with clean water (1 part AWAZEL COAT with 6 parts of clean water by volume).
- Old concrete and steel must be structurally sound prior to application. Sandblasting maybe required for better results. Two or more coats must be applied to ensure a durable finish. Second and subsequent coats should be applied perpendicular to each other once previous coats have fully dried.
- AWAZEL COAT may be applied to damp but not wet surfaces, dampen brushes before and occasionally during use to avoid clogging and ease application.
- During hot, dry weather application may be assisted by dampening the surfaces prior to application.



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AWAZEL COAT

Damp-proofing, Water base Bituminous Emulsion

Non-Fibrated
Bitumen Emulsion

REF: COMM_AWZCT_1123

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Specific gravity at 25°C	1.1
Solid Content , %	26
Flash point	Non- flammable
Adhesion to concrete	Excellent
Resistance to salts, Mild acids and alkalis	Excellent
Dry Time	6-8 hours per coat at 25°C

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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APPLICATION ATTRIBUTES

ATTRIBUTE	
Appearance: Wet Dry	Dark brown emulsion Black Film
Emulsion Type	Non Fibrated Emulsion



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AWAZEL CEMENT ACRYLIC COAT

High Performance, Acrylic Polymer modified Cementitious Waterproof Coating

Liquid-Applied Acrylic
Waterproofing Membrane

REF:AWCMRYL-2000-8.1

THIS PRODUCT

AWAZEL CEMENT ACRYLIC COAT is a two-component acrylic modified cementitious coating ideal for concrete and masonry waterproofing or resurfacing applications. AWAZEL CEMENT ACRYLIC COAT is mixed in situ to provide an effective, seamless barrier to waterborne salts and atmospheric gases thus provides protection to concrete surfaces from carbonation and chloride attack. CEMENT ACRYLIC COAT is non toxic and good for contact with portable water. A 1mm coating of AWAZEL CEMENT ACRYLIC COAT provides anti carbonation cover equivalent to over 80cm of concrete.

USES & APPLICATIONS

Waterproofing, anti-carbonation and surface reprofiling applications for concrete and masonry in

- Roofing Application
- Below-grade and substructure waterproofing applications
- Wet Area Waterproofing applications
- Water retaining structures
- Sea Water Channels
- Plugging and coating tie bar holes
- Protecting structures against brackish water
- As a vapor barrier under marble and granite to prevent water/vapor ingress
- Tiling works in water retaining structures
- For use on pedestrian walkways in marine areas

SUPPLY & PACKAGING

- 20 kg pack (Part "A" 15 Kg Powder + Part "B" 5 Kg Liquid)

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- VOC Compliant
- Breathable (appropriate to use on green concrete)
- Durable and trafficable
- Effortless mixing and application
- Excellent adhesion to most substrates (porous and non-porous)
- Excellent flexibility and elasticity
- Non toxic; ideal for contact with potable water
- High resistance to carbon dioxide and chloride iron diffusion
- High resistance to hydrostatic pressure

TYPICAL INSTALLATION PROCEDURES

The surface to be treated should be thoroughly wet prior to application. Any curing agent compounds, spalling concrete should be removed to until sound concrete is exposed. Dampen the concrete surface with clean water and keep at an SSD (Saturated Surface Dry) condition.

Mixing: Slowly add the powder to the liquid while mixing using a slow speed drill fitted with a Suitable paddle for 3 minutes. Do not mix more materials than that can be used within 45 minutes. Do not add more water than specified.

First Coat: Whilst damp- but free from standing water- apply mixed AWAZEL CEMENT ACRYLIC COAT using a short, stiff bristle brush or roller. Apply the first coat at a rate of 1-1.2kg/m² covering the entire area.

Subsequent Coats: Once the first coat has dried out apply the second coat at an average rate of 0.6-0.8 kg/m² per coat to achieve the required thickness for minimum thickness of 750 microns. Subsequent coats maybe applied to achieve more thickness following the same method. Wet curing is necessary to achieve ideal results using wet hessian.

COVERAGE RATE

- 1.8 kg/m² for 2 coats for minimum thickness of 1mm



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AWAZEL CEMENT ACRYLIC COAT

High Performance, Acrylic Polymer modified Cementitious Waterproof Coating

Liquid-Applied Acrylic
Waterproofing Membrane

REF:AWCMRYL-2000-8.21

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Part A+B mixed density, g/ml	1.8	ASTM D 4052
Hydrostatic pressure, Bar	7 Bars No leakage (2mm DFT)	DIN 1048
Elongation at break, %	>45	ASTM D 4964
Tensile strength, N/mm ²	8.0	ASTM D 638
Elasticity @20°C, %	200	DIN 53504
Water-vapor coefficient	3.64 X 10 ⁻¹ cm/sec	—
Adhesion to concrete, N/mm ²	2.0	ASTM D 4541
Initial Surface Absorption, %	>95 reduction against control	—
CO ₂ Diffusion Resistance	Sc >89cm (1mm DFT)	USEPA 24

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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APPLICATION ATTRIBUTES

ATTRIBUTE	RESULT
Mix	Creamy consistency

STORAGE & HANDLING

- Store in clean, dry environment and at temperatures between 5 - 25°C
- Shelf life of 12 months (unopened & stored properly)



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AWAZEL PU

Single Component, Moisture-Curing Polyurethane Liquid Membrane

Compliance: EOTA

Compliance: ASTM C836

Moisture-curing, Liquid-Applied Polyurethane Waterproofing Membrane

REF: PUM-PU-1222

THIS PRODUCT

AWAZEL PU is a moisture-curing, single-component, premium, highly elastic, cold-applied polyurethane liquid membrane used for long-lasting waterproofing. AWAZEL PU is based on a formula of pure elastomeric hydrophobic polyurethane resins which – when applied as recommended - results in an excellent, crack-bridging, and durable liquid waterproofing membrane. AWAZEL PU is suitable for covered applications under tiles while used for other multiple applications in the building envelope. AWAZEL PU cures to a tough rubber like finish with exceptional elasticity which accommodates for temperature fluctuation in hot or cold weather.

USES & APPLICATIONS

Waterproofing in covered applications in:

- Below-grade waterproofing
- Tunnels
- Bridge decks
- Planter boxes
- Roofs
- Balconies
- Terraces
- Plaza decks
- Wet areas
- Spa & sauna rooms
- Rejuvenation of existing asphalt roof substrates

CONSUMPTION

- 1.25 Kg/m² applied in two or three layers.
- NOTE: Consumption may vary depending on substrate condition and porosity.

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.

FEATURES & ADVANTAGES

- Simple application (roller or airless spray).
- Seamless application (no joints)
- High crack-bridging capabilities
- High water / vapour permeability
- Resistant to water

GENERAL INSTALLATION GUIDELINES

- Careful surface preparation is essential to realise optimum finish and durability.
- The surface must be clean, dry and sound, free of any contamination and/or protrusions that may negatively affect the adhesion of the membrane.
- Concrete substrates must be properly ground to remove laitance and create a strong bond between AWAZEL PU and the substrate.
- Cracks above 3 mm must be repaired using AWAZEL PU installed in 2 coats over the crack and reinforced with AWAZEL FABRIC sandwiched between the 2 coats.
- Maximum moisture content should not exceed 5% Substrate's compressive strength should be at least 25 MPa.
- Fresh concrete structures should be cure for minimum 28 days.
- Stir well before using for at least 3 minutes.
- Apply the first coat by pouring the AWAZEL PU over the surface and spread out at the recommended coverage rate using a roller or brush until the entire area is covered.
- Airless spray equipment is a good solution for large span areas.
- Allow first coat to cure for 12 – 18 hrs (not more than 48 hrs).
- Apply the second coat at the same method of applying the first coat at the recommended coverage rate.
- Allow to cure. If required a 3rd coat maybe applied.

SUPPLY & PACKAGING

- 25 kg pails



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TECHNICAL DATA SHEET

AWAZEL PU

Single Component, Moisture-Curing Polyurethane Liquid Membrane

Compliance: EOTA

Compliance: ASTM C836

Moisture-curing, Liquid-Applied
Polyurethane Waterproofing Membrane

REF: PUM-PU-1222

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Color	Black	Visual
Solid Content, %	94.0	ASTM D 2369-01
Elongation at break, %	>650	ASTM D412 / EN-ISO-527-3
Tensile strength, N/mm ²	3.0	ASTM D412 / EN-ISO-527-3
Tear Resistance, N	>20	ASTM D 624
Water Vapour Transmission, g/m ² .h	0.8	ASTM E 96- Water Method
Crack Bridging Capability	Pass the test, No loss of adhesion	ASTM C 836:1995
Hardness, (Shore A Scale)	60	ASTM D2240 / DIN 53505 / ISO R868
Low Temperature Flexibility	Passes the test, No signs of cracking	ASTM 711:1993
Service Temperature, °C	-40 TO +80	In house Lab
Tack free time Light traffic time	15 Hours 48 Hours	Conditions: 25 °C, 50% RH

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZEL PU 250

Single-Component, Liquid Applied Polyurethane Waterproofing Membrane
Compliance: EOTA

Liquid-Applied Polyurethane
Waterproofing Membrane

REF: ACC-PU250-0822

THIS PRODUCT

AWAZEL PU 250 is a single-component, premium, highly elastic, cold-applied and cold polyurethane liquid membrane used for long-lasting waterproofing. AWAZEL PU 250 is based on a formula of pure elastomeric hydrophobic polyurethane resins which – when applied as recommended- results in an excellent, crack-bridging and durable liquid waterproofing membrane. AWAZEL PU 250 has superior mechanical, chemical, thermal, UV and weathering resistance properties and therefore used for multiple applications in the building envelope.

USES

Substrate protections and waterproofing in:

- Roofs
- Balconies
- Terraces
- Plaza decks
- Wet areas
- Spa & sauna rooms
- Green roofs
- Flower beds
- Planter boxes
- Rejuvenation of existing roofs covered with asphalt felts, EPDM, PVC, Polyurethane or Acrylic
- Waterproofing over Spray Polyurethane Foam thermal insulation
- Waterproofing over various structural members
- Excellent cohesive bond strength

SUPPLY & PACKAGING

- 250 Kg drums
- 25 kg pails
- 5kg pails
- 6kg pails

CONSUMPTION

- 1.4-2.5 Kg/M² applied in two or three layers.

NOTE: Consumption may vary depending on substrate condition and porosity.

FEATURES & ADVANTAGES

- UV resistant
- Simple application (roller or airless spray)
- Seamless finish
- Resistant to water
- Resistant to frost
- Resistant to root penetration (light vegetation)
- Accommodates temperature fluctuation
- Excellent crack-bridging capabilities up to 2mm
- Excellent water/vapor permeability
- Excellent mechanical properties [(-40 oC) – (90 oC)]
- Excellent adhesion to most substrates
- Traficable post curing
- Resistant to most chemicals (detergents, industrial oils, sea water & domestic chemicals)

GENERAL INSTALLATION GUIDELINES

- Careful surface preparation is essential to realise optimum finish and durability.
- The surface must be clean, dry and sound, free of any contamination and/or protrusions that may negatively affect the adhesion of the membrane.
- Concrete substrates must be properly ground to remove latency and create a strong bond between AWAZEL PU 250 and the substrate.
- Cracks above 3 mm must be repaired using AWAZEL PU 250 installed in 2 coats over the crack and reinforced with AWAZEL FABRIC sandwiched between the 2 coats.
- Maximum moisture content should not exceed 5%
- Substrate's compressive strength should be at least 25 MPa
- Fresh concrete structures should be cure for minimum 28 days
- Stir well before using for at least 3 minutes
- Apply the first coat by pouring the AWAZEL PU 250 over the surface and spread out at the recommended coverage rate using a roller or brush until the entire area is covered.
- Airless spray equipment is a good solution for large span areas
- Allow first coat to cure for 12 – 18 hrs (not more than 48 hrs)
- Apply the second coat at the same method of applying the first coat at the recommended coverage rate
- Allow to cure
- If required a 3rd coat maybe applied



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZEL PU 250

Single-Component, Liquid Applied Polyurethane Waterproofing Membrane
Compliance: EOTA

Liquid-Applied Polyurethane
Waterproofing Membrane

REF: ACC-PU250-0822

CHARACTERISTICS

PROPERTY	VALUE	TEST METHOD
Elongation at break	> 800 %	ASTM D 412 / DIN 52455
Tensile strength	> 4 N/mm ²	ASTM D 412 / DIN 52455
Water Vapor Permeability	> 25 g / m ² / day	ISO 9932:91
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Adhesion to concrete	> 2.0 N/mm ² (Concrete surface failure)	ASTM D 903
Crack Bridging Capability	Up to 2 mm crack	EOTA TR-008
Hardness (Shore A)	65	ASTM D 2240 (15")
Solar Reflectance (SR)	0.87	ASTM E903-96
Solar Emittance (ε)	0.89	ASTM E408-71
Resistance to Root Penetration	Resistant	UNE 53420
Thermal Resistance	Passed (No significant changes @ 80 °C for 100 days)	EOTA TR-011
UV accelerated ageing	Passed (No significant changes in presence of moisture)	EOTA TR-010
Resistance after water aging	Passed	EOTA TR-012
Hydrolysis (5% KOH, 7days cycle)	No significant elastomeric change	In-house Lab test
Construction of Material Fire class	B2	DIN 4102-1
Pull off strength [Mpa]	(Concrete: ≥ 1.5) (Steel: ≥ 6)	DIN EN ISO 4624 / ASTM D-4541
Resistance to mechanical damage (static impression)	High Resistance (class: P3)	EOTA TR-007
Resistance to mechanical damage (dynamic impression)	High Resistance (class: P3)	EOTA TR-006
Resistance to Flying Sparks and Radiating Heat	Passed	DIN 4102-7

NOTES:

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(2) The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

(3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZEL PU 250

Single-Component, Liquid Applied Polyurethane Waterproofing Membrane
Compliance: EOTA

Liquid-Applied Polyurethane
Waterproofing Membrane

REF: ACC-PU250-0822

APPLICATION ATTRIBUTES

PROPERTY	RESULT	CONDITIONS: 20 °C 50 % RH
Service Temperature	(-30) °C- (90 °C)	
Shock Temperature (20min)	200 °C	
Rain Stability Time	4 hours	
Light Pedestrian Traffic Time	12 hours	
Final Curing time	7 days	
Chemical Properties	Resistant to acidic, alkali solutions (5%), Resistant to Detergents, Seawater and oils.	

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture.

HEALTH & SAFETY

- This product contains Isocyanate.
- This product is intended for professional use only
- Review the product's MSDS for more information

COLOURS

- White
- Light Grey



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AWAZEL PU 270

Single-Component, Liquid Applied Polyurethane Waterproofing Membrane
Compliance: EOTA

Liquid-Applied Polyurethane Waterproofing Membrane

REF: PUM-PU270-1222

THIS PRODUCT

AWAZEL PU 270 is a single-component, premium, highly elastic, cold-applied polyurethane liquid membrane used for long-lasting waterproofing. AWAZEL PU 270 is based on a formula of pure elastomeric hydrophobic polyurethane resins which – when applied as recommended - results in an excellent, crack-bridging and durable liquid waterproofing membrane. AWAZEL PU 270 is suitable for covered applications under tiles while used for other multiple applications in the building envelope.

USES & APPLICATIONS

Waterproofing in covered horizontal and vertical applications in:

- Roofs
- Balconies
- Terraces
- Plaza decks
- Wet areas
- Spa & sauna rooms
- Rejuvenation of existing asphalt roof substrates

SUPPLY & PACKAGING

Available in

- 25 kg pails
- 15kg pails
- 1kg tins

CONSUMPTION

- 1.2-2.5 Kg/m² applied in two or three layers.
- NOTE: Consumption may vary depending on substrate condition and porosity.

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.

FEATURES & ADVANTAGES

- Simple application (roller or airless spray).
- Seamless application (no joints)
- High crack-bridging capabilities
- High water / vapour permeability
- Resistant to water

GENERAL INSTALLATION GUIDELINES

- Careful surface preparation is essential to realise optimum finish and durability.
- The surface must be clean, dry and sound, free of any contamination and/or protrusions that may negatively affect the adhesion of the membrane.
- Concrete substrates must be properly ground to remove laitance and create a strong bond between AWAZEL PU 250 and the substrate.
- Cracks above 3 mm must be repaired using AWAZEL PU 270 installed in 2 coats over the crack and reinforced with AWAZEL FABRIC sandwiched between the 2 coats.
- Maximum moisture content should not exceed 5% Substrate's compressive strength should be at least 25 MPa.
- Fresh concrete structures should be cured for minimum 28 days.
- Stir well before using for at least 3 minutes.
- Apply the first coat by pouring the AWAZEL PU 270 over the surface and spread out at the recommended coverage rate using a roller or brush until the entire area is covered.
- Airless spray equipment is a good solution for large span areas.
- Allow first coat to cure for 12 – 18 hrs (not more than 48 hrs).
- Apply the second coat at the same method of applying the first coat at the recommended coverage rate.
- Allow to cure. If required a 3rd coat maybe applied.



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AWAZEL PU 270

Single-Component, Liquid Applied Polyurethane Waterproofing Membrane
Compliance: EOTA

Liquid-Applied Polyurethane
Waterproofing Membrane

REF: PUM-PU270-1222

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Color	White, Grey & Black	Visual
Elongation at break, %	>400	ASTM D 412 / DIN 52455
Tensile strength, N/mm ²	>4	ASTM D 412 / DIN 52455
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Water Vapor Permeability, g/m ² /day	>25	ISO 9932:91
Adhesion to concrete, N/mm ²	>2.0 (Concrete surface failure)	ASTM D 903
Hardness, (Shore A Scale)	65	ASTM D 2240 (15")
Thermal Resistance (80°C for 100 days)	Passed –No significant changes	EOTA TR-011
Service Temperature, °C	-30 to +90	In-house Lab
Hydrolysis (5% KOH, 7days cycle)	No significant elastomeric change	In house Lab
Tack free time Light traffic time	8 Hours 24 Hours	Conditions: 20 °C, 50% RH
Final Curing time	7 days	Conditions: 20 °C, 50% RH
Chemical Properties	Good resistance against acidic and alkali solutions (5%), Detergents, Seawater and oils.	

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZEL PU 670

Single-Component, Liquid Applied Bitumen-Extended Polyurethane Waterproofing Membrane

Compliance: EOTA

Compliance: ASTM C836

Bitumen-Extended Polyurethane Waterproofing Liquid Membrane

REF: PUM-PU670-0323

THIS PRODUCT

AWAZEL PU 670 is a single-component, highly elastic, moisture curing, cold-applied, bitumen-extended Polyurethane liquid membrane used for long-lasting waterproofing. AWAZEL PU 670 is based on a formula of pure elastomeric hydrophobic Polyurethane resins extended with polymerized virgin bitumen. AWAZEL PU 670 has superior mechanical, chemical, thermal and weathering resistance properties and therefore used for multiple applications in the building envelope.

USES & APPLICATIONS

Substrate protection and waterproofing in:

- Sub-structure
- Isolated footings
- Roofs
- Balconies
- Terraces
- Plaza decks
- Wet areas
- Spa & sauna rooms
- Rejuvenation of existing roofs covered with asphalt felts, EPDM, PVC, Polyurethane or Acrylic

SUPPLY & PACKAGING

- 250 Kg drums
- 20 kg pails
- 5kg pails
- 6kg pails

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture.

CONSUMPTION

- 1.5- 2.5 Kg/m² applied in two or three layers.

NOTE: Consumption may vary depending on substrate condition and porosity.

FEATURES & ADVANTAGES

- Simple application (roller or airless spray)
- Seamless finish
- Resistant to water
- Resistant to frost
- Resistant to root penetration (light vegetation)
- Accommodates temperature fluctuation
- Excellent crack-bridging capabilities up to 2mm
- Excellent water/vapor permeability
- Excellent mechanical properties [-40°C to 90°C]
- Excellent adhesion to most substrates
- Trafficable post curing
- Resistant to most chemicals (detergents, industrial oils, sea, water & domestic chemicals)
- Excellent cohesive bond strength

TYPICAL INSTALLATION PROCEDURES

- Careful surface preparation is essential to realise optimum finish and durability.
- The surface must be clean, dry and sound, free of any contamination and/or protrusions that may negatively affect the adhesion of the membrane.
- Concrete substrates must be properly ground to remove latency and create a strong bond between AWAZEL PU 670 and the substrate.
- Cracks above 3 mm must be repaired using AWAZEL PU 670 installed in 2 coats over the crack and reinforced with AWAZEL FABRIC sandwiched between the 2 coats.
- Maximum moisture content should not exceed 5%
- Substrate's compressive strength should be at least 25 MPa
- Fresh concrete structures should be cure for minimum 28 days
- Stir AWAZEL PU 670 well before using for at least 3 minutes
- Apply the first coat by pouring the AWAZEL PU 670 over the surface and spread out at the recommended coverage rate using a roller or brush until the entire area is covered.
- Airless spray equipment is a good solution for large span areas
- Allow first coat to cure for 12 – 18 hrs (not more than 48 hrs)
- Apply the second coat at the same method of applying the first at the recommended coverage rate
- Allow to cure. If required a 3 coat maybe applied



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZEL PU 670

Single-Component, Liquid Applied Bitumen-Extended Polyurethane Waterproofing Membrane

Compliance: EOTA

Compliance: ASTM C836

Bitumen-Extended Polyurethane
Waterproofing Liquid Membrane

REF: PUM-PU670-0323

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Colour	Black	Visual
Tensile strength (23±2°C), N/mm ²	> 1.4	ASTM D 412 / DIN 52455
Elongation at break (23±2°C), %	>695 %	ASTM D 412 / DIN 52455
E modulus, N/mm ²	>1.00	ASTM D 412 / DIN 52455
Tear Resistance (23±2°C), N/mm	>15	ASTM D 624
Puncture Resistance, N	>150	ASTM D 154
Resistance to Hydrostatic pressure	No Leak @ 3 bar (30 m water column)	DIN 16726
Hardness (Shore A)	60	ASTM D 2240 (15")
Adhesion to Concrete, N/mm ²	>1.0	ASTM D 903
Thermal Resistance	Passed (No significant changes @ 80°C for 100 days)	EOTA TR-011
Hydrolysis (5% KOH, 7 days cycle)	Passed (No significant changes in presence of moisture)	EOTA TR-010
Peel adhesion (23±2°C), N	20	ASTM C 794
Crack bridging ability	Pass the test, No loss of adhesion	ASTM C 836:1995
Crack bridging ability (23±2°C), mm	Pass: 3.2 mm crack	ASTM C 1305
Extensibility after heat ageing (23±2°C)	Pass: 6.4 mm crack	ASTM C 1522

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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APPLICATION ATTRIBUTES

PROPERTY	RESULT	
Service Temperature	-40°C to 90°C	
Max. temperature short time	250°C(15 min. shock)	
Tack-free time	5 hours	Conditions: 20°C, 50% RH
Light pedestrian traffic lead time	24- 48 hours	
Final Curing time	7 days	
Chemical Properties	Resistant to acidic, alkali solutions (5%), Resistant to Detergents, Seawater and oils.	

HEALTH & SAFETY

- All safety measures should be observed during installation
- This product is intended for professional use only.
- For more information on safety measures consult the product's Material Safety Data Sheet.



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AWAZEL PU 2K

Two-component, Polyurethane, Liquid-Applied Waterproofing Membrane

Compliance: ASTM C836

Liquid-Applied Polyurethane Waterproofing Membrane

REF: COMM-PU2K-0624

THIS PRODUCT

AWAZEL PU 2K is a high solid content, cold applied two component aliphatic polyurethane waterproofing membrane. AWAZEL PU 2K is used for multiple applications within the construction industry providing a UV resistant, abrasion-resistant, continuous and jointless film when properly applied. AWAZEL PU 2K adheres to various substrates such as concrete, metal, wood, and masonry. AWAZEL PU 2K is suitable for both horizontal and vertical applications whether for restoration of existing waterproofing systems or for new construction applications.

USES & APPLICATIONS

- Roofing under tiles
- Substructure waterproofing
- Bathrooms
- Kitchens
- Plaza decks
- Balconies
- Terraces
- Spa & sauna rooms
- As a finish coat over resinous waterproofing material when UV resistance is essential.
- Restoration of existing roofs
- Waterproofing over Spray Polyurethane Foam thermal insulation
- Waterproofing over various structural members

SUPPLY & PACKAGING

- 28 Kg pail

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture.

FEATURES & ADVANTAGES

- UV resistant
- Simple application (roller or airless spray)
- Seamless finish
- Resistant to water
- Resistant to frost
- Accommodates temperature fluctuation
- Excellent crack-bridging capability up to 2mm
- Excellent water/vapor permeability
- Excellent mechanical properties
- Excellent adhesion to most substrates
- Trafficable post curing
- Resistant to most chemicals (detergents, industrial oils, sea water & domestic chemicals)
- Highly Elastic
- Anti-Slip
- UV Resistant
- Hard wearing
- Durable
- Repair Friendly
- Excellent cohesive bond strength

TYPICAL INSTALLATION PROCEDURES

Surface Preparation: Careful surface preparation is essential to realize optimum finish and durability

- The surface must be clean, dry and sound, free of any contamination and/or protrusions that may negatively affect the adhesion of the membrane.
- Concrete substrates must be properly ground to remove laitance and create a strong bond with AWAZEL PU 2K.
- Maximum moisture content should not exceed 5%
- Cracks above 3 mm must be repaired using AWAZEL PU 2K and AWAZE FABRIC installed in 2 coats over the crack and reinforced with AWAZEL FABRIC sandwiched between the 2 coats.
- Substrate's compressive strength should be at least 25 MPa
- Fresh concrete structures should be cure for minimum 28 days.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZEL PU 2K

Two-component, Polyurethane, Liquid-Applied Waterproofing Membrane

Compliance: ASTM C836

Liquid-Applied Polyurethane Waterproofing Membrane

REF: COMM-PU2K-0624

APPLICATION: Add part A to Part B and stir well with a slow-speed mixer (300 – 400 rpm) for at least 3 minutes prior to starting works

- Apply the first coat by pouring the AWAZEL PU 2K over the surface and spread out at the recommended coverage rate of 0.5- 1.0 mm thickness / m² / coat using a roller or brush until the entire area is covered.
- For high performance application, apply a layer of AWAZEL FABRIC while the first coat is still damp
- Allow first coat to cure for 24 – 48 hrs.
- Apply the second coat at the same method of applying the first coat at the recommended coverage rate and allow to cure.

PRIMING: Priming maybe required for application over fresh concrete (> 5% moisture content) to create a stronger bond between AWAZEL PU 2K and the substrate. Otherwise AWAZEL PU 2K is a self-primed product with a dry film thickness of 50- 70 microns with 6- 7 hrs. dry-to-touch.

NOTE: Surfaces subject to continuous splashes or permanent contact with water; coated with AWAZEL PU 2K, shall be left to dry out for- at least 7 days – prior to contact with water.

CURING

- > 8 hours dry-to-touch
- > 24-48 hours full dry
- > 7 Days full curing if a flood test is required

HEALTH & SAFETY

- All safety measures should be observed during installation
- This product is intended for professional use only.
- For more information on safety measures consult the product's Material Safety Data Sheet.

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Solid Content , %	90 ± 5	ASTM C 836
Tensile strength, N/mm ²	> 4.20	ASTM D 412
Elongation, %	> 600 ± 10	ASTM D 412
Tear Resistance, N/mm ²	> 3.0 ± 0.50	ASTM D 624
Recovery After Elongation, %	100 ± 10	ASTM C 957
SRI (Solar Reflection Index)	101	ASTM E 1980
Hardness (Shore A)	> 58 ± 5	ASTM D 624

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances. AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZEL SEALFLEX

High Performance, Two-Part, Polymer Modified Waterproofing Liquid Membrane
Compliance : EN 1504-2

Liquid-Applied
Waterproofing Membranes

REF: AWSF-REG-ST-0422

THIS PRODUCT

AWAZEL SEALFLEX is a flexible two-component, brush-applied, crack-bridging sealing liquid membrane used for a comprehensive waterproofing of various substrates inclusive of concrete slabs, brickwork, plaster, and generally mineral construction materials. AWAZEL SEALFLEX is ideal for waterproofing substrates that susceptible to hair cracks due to thermal contractions-expansions movements under tiles on balconies, terraces, pools and bathrooms, inverted insulation roofs, walls and floors of basements, tanks, tunnels, foundations, and canals. AWAZEL SEALFLEX guarantees complete waterproofing under positive or negative hydrostatic pressure and the surface stays vapor permeable. AWAZEL SEALFLEX is fast to install, supplied in ready-to-mix two-part packs yielding high coverage over substrates.

USES

- Balconies
- Terraces,
- Plaza decks
- Swimming pools
- Potable water tanks
- Swimming pools
- Wet areas
- Basements
- Waterproofing within an insulated roofing system
- Waterproofing with AZWAZEL's COMBOGUARD roofing system
- Cellars
- Tanks
- Tunnels
- Foundations
- Walls
- Brick or cement block structures
-
- Elevator shafts

STORAGE & HANDLING

- Material should be stored in a properly ventilated areas
- Preferably in shaded, low-moisture covered locations . protected against ice, high temperature and exposure to direct sunlight .

FEATURES & ADVANTAGES

- VOC compliant
- Vapour permeable
- Anti-bacteria
- Durable and reliable protection of substrates
- High crack-bridging ability
- High bond strength
- UV resistant
- Resistant to fungus and microorganisms
- Excellent Thixotropy
- Primerless over non-porous substrates
- UV resistant and high temperature tolerant
- No bubbling or swelling after curing
- Excellent adhesion to almost all types of substrates
- Excellent chemical resistance

SUPPLY PACKAGING

- 16.98 Kg powder
- 5.1 Kg emulsion

CONSUMPTION

- 1.0 - 1.30 Kg/m²/coat

SHELF LIFE

- 12 months from production date when stored under recommended conditions.

TYPICAL INSTALLATION PROCEDURES

- Add part "A" to part "B" and mix for 3 minutes with a slow-speed rpm mixer
- During summer season, keep surfaces lightly damp by spraying water for a couple of days after application.
- Apply the product using roller brush, or spatula cross wise in two or more coats. The second coat can be applied 5 – 10 hours after the first coat has fully cured. Each coat should not exceed 1-2 mm thickness.
- Where required, apply a third coat in the same fashion
- When installed under tiles, we recommend using tile adhesive for non-absorbent substrates.
- When installed under plastering we recommend making the plaster elastic using suitable improver emulsion (diluted SBR emulsion).



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AWAZEL SEALFLEX

High Performance, Two-Part, Polymer Modified Waterproofing Liquid Membrane
Compliance : EN 1504-2

Liquid-Applied
Waterproofing Membranes

REF: AWSF-REG-ST-0422

CHARACTERISTICS

PROPERTY	TYPICAL RESULTS
Water vapor permeability	SD = 0.8 (class I Sd < 5m)
Capillary water absorption	(kg/m ² . h ^{0.5}) <0.1
Bond Strength to concrete (28 days)	>1.0 (N/mm ²)
Static crack bridging @20 °C (EN 1062-7)	Class A2
Dynamic crack bridging @ 20 °C	Class B3 EN 1062-7 (reinforced with fiberglass mesh)
Tensile strength (ASTM D412)	0.8 ± 0.2 MPa
Water absorption	3.27 %
Adhesion to concrete	0.8 ± 0.2 MPa
Flashpoint	> 100 °C
Minimum application temperature	5 °C
VOC content (USEPA 24)	<1.0 g/L
Flammability	Non-flammable

NOTES:

(1) Above values are subject to internationally recognized standards tolerance.

(2) The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

(3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

HEALTH & SAFETY

- Wear gloves, goggles, and a dust masks during mixing and installation.
- Inhalation of dust must be avoided whilst mixing.
- Contains alkalis. Protection should be provided to prevent contact with skin and eyes. Eye contact: Rinse with abundant amounts of clean water and seek medical attention. Skin contact: Rinse with abundant amounts of clean water followed by thorough cleaning with soap and water.

SUPPLY & PRESENTATION

ATTRIBUTE	RESULT
Supply form	PART A: cement-based powder packed in paper bags, PART B: emulsion packed in jerricans.
Colours	Grey, Off-White
Pot life	45 @ 25 °C
Maximum coat thickness (2-3 coats)	≤5 mm
Minimum coat thickness (2-3 coats)	≥ 2 mm



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**LIQUID MEMBRANES
WATERPROOFING**

RESINOUS WATERPROOFING
COATINGS



TABLE OF CONTENTS

AWAZEL ACRYLIC COAT

High Performance, Crack-bridging, Acrylic - based, Heavy Duty Protective Membrane Coating

Liquid-Applied Acrylic
Waterproofing Membrane

REF: AWCYRIL-1000-8.21

THIS PRODUCT

AWAZEL ACRYLIC COAT is a resinous, high performance single-component acrylic liquid waterproofing membrane. When properly applied, AWAZEL ACRYLIC COAT forms a tough, flexible, seamless, and durable weather and water-resistant membrane due to its thixotropic nature. Once cured, the film becomes UV resistant and solar reflective while accommodating for crack-bridging requirements. AWAZEL ACRYLIC COAT is suitable for horizontal and vertical applications over various types of substrates that are designed with complicated geometry such as domes, arches, shells, folded plates and corrugated surfaces.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Exposed waterproofing applications over plaza decks, terraces, balconies, sunshades or outdoor car parks.
- Roof detail waterproofing such as parapets and flashing works.
- Rejuvenation works over existing internal or exterior walls
- As a protective membrane layer over PU foam.
- For multiple waterproofing applications over concrete and masonry structures in swimming pools, water features and basements.

SUPPLY & PACKAGING

- 15 Kg Pail

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

ADVANTAGES

- Seamless and easy to install.
- UV resistant.
- Excellent elasticity

TYPICAL INSTALLATION PROCEDURES

- **Surface Preparation:** Surface to which AWAZEL ACRYLIC COAT shall be applied must be clean and free of dirt, debris, dust, rust or any other material which may impair adhesion.
- Old concrete and steel must be structurally sound prior to application.
- Stir AWAZEL ACRYLIC COAT well inside the container for 3 minutes prior to application.
- **Priming:** Apply a primer coat by diluting the material with 25% - 30% of clean water by volume.
- **Coating:** After the primer coat is completely dried out, apply a minimum of two coats of undiluted AWAZEL ACRYLIC COAT.
- First coat coverage rate is 900 gm/m² while second coat coverage rate shall be at 750 gm/m². Both coats should achieve a minimum of 1.5 mm DFT.
- Second and subsequent coats should be applied at right angles to each other once previous coats have fully dried.

STORAGE & HANDLING

Store in a clean, dry environment and at temperatures controlled store between 5 °C & 30 °C.

SHELF LIFE

12 months (when stored as recommended)



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TECHNICAL DATA SHEET

AWAZEL ACRYLIC COAT

High Performance, Crack-bridging, Acrylic - based, Heavy Duty Protective Membrane Coating

Liquid-Applied Acrylic
Waterproofing Membrane

REF: AWCYR-1000-8.21

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Solid content, %	60	ASTM C-836, ASTM C 898
Specific gravity@25 °C, Kg/L	7.9 l/m ²	ASTM D 6937- 16
Elongation, %	300- 350	ASTM D 412
Thickness coat, mm	Approximately 1.0, DFT	—
Application temperature, °C	5- 35	—
Time between re-coating, hrs.	6- 8 min.	—
Tack-Free time, hrs	6	ASTM C 679
Full curing Time, hrs.	48	ASTM C 679
VOC g/l	< 10	USEPA 24

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PRESENTATION

ATTRIBUTE	RESULT
Colour	White Milky Liquid
Appearance	Thixotropic



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AWAZERESIN UR 200 HBR

Two-Part, Spray-Applied, High-Performance, HYBRID Polyurea Lining & Waterproofing System

Two-Part Hybrid

Polyurea Waterproofing System

REF: ARSN-VMP250-UR200HBR-0622

THIS PRODUCT

AWAZERESIN UR 200 HBR is an elastomeric, hybrid, fast-setting, spray-applied, seamless, and flexible protective liquid membrane. It is a high-performance technology suitable for use in a wide range of applications that require permanent, rapid application time, long service life protection and abrasion or impact resistance while safeguarding the structure against destructive chemicals. AWAZERESIN UR 200 HBR is instant curing system even with a high-build thickness. Its fast-setting capabilities allows for a short closure time of job sites whether installed by a cold-spray low-pressure application equipment or hot-spray high pressure equipment. Selecting the appropriate method depends mainly on projects' size and requirements. AWAZERESIN UR 200 can deliver best results only when proper surface preparation, priming and equipment efficiency guidelines are followed.

USES

Substrate protections and waterproofing in:

- Large-scale commercial, industrial & manufacturing facilities
- Green and dense vegetation areas
- Trafficable roof decks
- Locations subject to high wind abrasion
- Waterproofing of water retaining structures (water features, swimming pools, dams, and ponds)
- Bridge decks, roads & tunnels
- Roof top waterproofing, green roofs
- Podiums, Plaza-decks and wet areas
- Coating over EPS, XPS and similar foam-based material
- Flooring areas of trucks and commercial vehicles
- Roof waterproofing of mobile homes, caravan and bed-lining
- Industrial chutes, hoppers, bins & sand / gravel equipment

FEATURES & ADVANTAGES

- Dual application (hot spray high pressure or cold spray low pressure application)
- VOC compliant
- Seamless Application
- Fast setting and fast tack-free times
- Fast return-to-service (walk in minutes)
- Sustains flexibility while adapting to both temperature and humidity fluctuations
- Excellent elongation and crack-bridging capabilities
- Excellent abrasion and impact resistance
- Excellent resistance to aggressive chemicals, bleaches and oil spillage
- Excellent tensile strength
- Resistant to UV, chlorine and saltwater
- Excellent adhesion to concrete, steel, aluminum, synthetics, fibers, wood and foam substrates.
- Can be applied across multiple substrates in the same application process
- Remains flexible under a wide range of climatic conditions
- Cost and time saving through a single process application to any thickness required
- High solid content (100%)
- Protection is not required before backfilling in below-grade applications

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture.

SUPPLY & PACKAGING

- 425 Kg. set



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TECHNICAL DATA SHEET

AWAZERESIN UR 200 HBR

Two-Part, Spray-Applied, High-Performance, HYBRID Polyurea Lining & Waterproofing System

Two-Part Hybrid
Polyurea Waterproofing System

REF: ARSN-VMP250-UR200HBR-0622

CHARACTERISTICS

PROPERTY	VALUE	TEST METHOD
Hardness [Shore D]	40 ± 5 (LP-2: 40 ± 5)	ISO 868-2003 / ASTM D-2240
Elongation at break [%]	200- 250 (LP-2 200- 250)	ISO 37-2005 / ASTM D-638
Modul [MPa]	100% Elongation: 8 (LP-2: ≥ 8)	ISO 37-2005 / ASTM D-638
Tensile strength [MPa]	≥ 14 (LP-2: ≥ 13)	ISO 37-2005 / ASTM D-638
Density [g/cm ³]	1.00 ± 0.02 (LP-2 1.00 ± 0.02)	EN ISO 1183 / ASTM D-972
Density [g/cm ³] @ 20°C	(PART A: 1.09 - 1.13) (PART B: 0.98 - 1.02)	DIN EN ISO 2811-2 / ASTM D-1217
Viscosity [mPa*s] @ 25°C	(PART A: 300- 700) (PART B: 650 - 950)	DIN EN ISO 2884-2 / ASTM D-4878
Solid content	100%	DIN EN 827 / ASTM D-2697
Heat conductivity [W/m*k]	0.245	-
Surface resistance [Ohm]	≥ 1,0*10 ¹¹	DIN IEC 60167
Volume resistance [Ohm]	≥ 1,0*10 ¹¹	DIN IEC 60093
Rebound resilience [%]	≥ 38 (LP-2 ≥ 25)	ISO 4662 / ASTM D-7121
Tear growth resistance[N/mm]	≥ 10 (LP-2 ≥ 10)	ISO 34-1 method A
Volume abrasion [mm ³]	≤ 200 (LP-2 ≥ 250)	DIN ISO 4649
Taber Abrasion [mg]	< 5 (Wheel CS17 / 1.000g / 1000 Cycles) (LP-2 < 10) < 95 (Wheel H18 / 1.000g / 1000 Cycles) (LP-2 < 110)	ASTM D-4060
Pull off strength [Mpa]	(Concrete: ≥ 3.0) (Steel: ≥ 6.0)	DIN EN ISO 4624 / ASTM D-4541
Peel off strength [N/mm]	(Concrete: ≥ 3.5) (Steel: ≥ 4.0)	ISO 4624 / ASTM 4541
Hardness Shore A	40 ± 5 LP-2: 40 (± 5)	ISO 868-2003 / ASTM D-2240



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AWAZERESIN UR 200 HBR

Two-Part, Hybrid, Spray-Applied, High-Performance, HYBRID Polyurea Lining & Waterproofing System

Two-Part Hybrid
Polyurea Waterproofing System

REF: ARSN-VMP250-UR200HBR-0622

PROCESSING PROPERTIES

PROPERTY	VALUE	TEST METHOD
Min. Process temp. [°C]	Dry:-40 (LP-2- 40)	ISO 11346 / ASTM D-2485
Max. Process temp. [°C]	Wet: 45 (LP-2 40) Dry: 90 (LP-2 90) Peak temperature dry: 120 (LP-2 ≥ 110)	ASTM D-2485
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume	
Material consumption [kg/m ² /1mm]	minimum: 1- 1.5 maximum : indefinite	
Recommended thickness [mm]	Minimum: 1 – Maximum: unlimited	
Gel time @ 20 °C [sec.]	12 - 17 (LP-2: 20) (dependent on ambient & substrate temperature)	
Tack free time @ 20 °C [sec.]	15- 30 (LP-2: 40- 60) (dependent on ambient & substrate temperature)	
Over coat cycle [h]	0 – 12 (without any pre-treatment)	
Curing/loading after [h]	Walkable: 1 Mechanical: 2-4 Chemical: 12- 24	
Temperature range for application (ambient) [°C]	(0) - (+50)	
Temperature range for application (substrate) [°C]	(0) - (+50)	
Material Temperature (Preconditioning) [°C]	25 - 30	
Material Temperature (Spraying) [°C]	65 - 75	
Maximal relative air humidity for application [%]	80 - 85	
Dew point limit	minimum 3k > DP	

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AWAZERESIN UR 200 HBR

Two-Part, Hybrid, Spray-Applied, High-Performance, HYBRID Polyurea Lining & Waterproofing System

Two-Part Hybrid
Polyurea Waterproofing System

REF: ARSN-VMP250-UR200HBR-0622

GENERAL INSTALLATION GUIDELINES

- AWAZERESIN UR 200 HBR can only be applied using efficient high pressure heated plural component spray equipment by trained and approved applicators.
- The PART "B" should be thoroughly power stirred prior to the commencement of spraying and periodically during the spraying process to ensure there is no settling out of the components.
- The gel and tack free times depend on the surrounding climatic conditions, ambient temperature, temperature of the substrate, ventilation and relative humidity
- Aromatic Polyurea Coating Systems are UV-stable but are not color stable. The cured coating system may exhibit discoloration when exposed to sunlight. This does not influence the physical properties of the material.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Spray personnel must be trained and approved by the AWAZEL.
- Spray personnel should wear appropriate PPE including approved breathing equipment, eye wear, Nylex or similar light weight spray suit and appropriate covered footwear.
- Avoid breathing evaporating material during spraying or mixing
- Avoid eye and skin contact.
- For more information on safety measures consult the product's Material Safety Data Sheet.

ATTRIBUTES

PROPERTY	VALUE	TEST METHOD
Chemical Base	Comp. A: MDI-Prepolymer Comp. B: Polyetheramine & Polyol Mixture	-
VOC-content	0%	ISO 11890-1 / ASTM D-1259
Colour	Straw / brownish colour (un-pigmented)	-
Shelf life	Approximately 12 months Unopened and stored properly	-

NOTE (1): The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

NOTE (2): Since this product is highly elastic and a stretchable type of membrane, deviation in length and width may occur after storing and/or application due to stretching stress.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZERESIN UR 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System

Two-Part Pure
Polyurea Waterproofing System

REF: ARSN-UR200-VP350-012

THIS PRODUCT

AWAZERESIN UR 200 is an elastomeric, pure, fast-setting, spray applied, seamless, and flexible protective liquid membrane. It is a high performance technology suitable for use in a wide range of building envelope applications that require long service life protection, abrasion and impact resistance while safeguarding the structure against destructive chemicals. Suitable for both industrial and residential applications AWAZERESIN UR 200 provides a seamless, uniform and resilient waterproofing barrier when properly applied. AWAZERESIN UR 200 is fit for use over various substrates in sub-structure and superstructure applications in addition to civil engineering works. Due to its composition and formula AWAZERESIN UR 200 prevents bacterial growth thus avails a healthy and environment in both food processing and pharmaceutical laboratories. AWAZERESIN UR 200 can deliver best results only when proper surface preparation, priming and equipment efficiency guidelines are followed.

USES & APPLICATIONS

- Protection of both concrete structures in roofing and waterproofing applications
- Protection of concrete structures in water retaining structures and wastewater treatment plants.
- Steel and concrete tank linings subject to corrosion, abrasion and aggressive chemical attack.
- Waterproofing of areas subject to impact, abrasion, potential corrosion, traffic loads and exposure to UV.
- Protection of substrates against abrasion and impact in mining fields, industrial and material handling sites .
- Protection in marine applications.
- Sacrificial wear plates and linings in the mining and transport industries.
- Secondary containment linings in the power, petrochemical, oil and gas industries.
- Food processing plants hospitals and pharmaceutical laboratories.

FEATURES & ADVANTAGES

- VOC compliant
- Fast setting
- Sustains flexibility while adapting to both temperature and humidity fluctuations
- Excellent elongation and crack-bridging capabilities
- Excellent abrasion and impact resistance
- Excellent resistance to aggressive chemicals, bleaches and oil spillage
- Excellent tensile strength
- Resistant to UV
- Excellent adhesion to concrete, steel, aluminum, synthetics, fibers, wood and foam substrates.
- Can be applied across multiple substrates in the same application process
- Remains flexible under a wide range of climatic conditions
- Cost and time saving through a single process application to any thickness required
- High solid content (100%)

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Do not store chemicals next to food stuffs.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture..

SUPPLY & PACKAGING

- 40 Kg. set
- 425 Kg. set



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZERESIN UR 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System

Two-Part Pure
Polyurea Waterproofing System

REF: ARSN-UR200-VP350-0122

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Hardness [Shore D]	45 ± 5	ISO 868 / ASTM D-2240
Elongation at break [%]	300 – 350	ISO 37 / ASTM D-638
Modul [MPa]	100% Elongation: ≥ 8 300% elongation: ≥ 13	ISO 37 / ASTM D-638
Tensile strength [MPa]	≥ 17	ISO 37 / ASTM D-638
Density [g/cm ³]	1.02 ± 0.02	EN ISO 1183 / ASTM D-792
Density [g/cm ³] @ 20°C	Comp. A: 1,09 – 1,13 Comp. B: 0,98 – 1,02	DIN EN ISO 2811-2 / ASTM D-1217
Viscosity [mPa*s] @ 25°C	Comp. A: 300 – 1.000 Comp. B: 600 – 1.350	DIN EN ISO 2884-2 / ASTM D-4878
Solid content	100%	DIN EN 827 / ASTM D-2697
Surface resistance [Ohm]	≥ 1.0*10 ¹¹	DIN IEC 60167
Volume resistance [Ohm]	≥ 1.0*10 ¹¹	DIN IEC 60093
Rebound resilience [%]	≥ 32	ISO 4662 / ASTM D-7121
Tear growth resistance[N/mm]	≥ 15	ISO 34-1 method A
Volume abrasion [mm ³]	≤ 250	DIN ISO 4649
Taber Abrasion [mg]	< 8 (Wheel CS17 / 1.000g / 1000 Cycles) < 80 (Wheel H18 / 1.000g / 1000 Cycles)	ASTM D-4060
Pull off strength [N/mm ²]	Concrete: ≥ 1.5 Steel: ≥ 5	DIN EN ISO 4624 /ASTM D-4541
Sound absorption	> 10 dB (A)	—
Heat Conductivity [W/m*K]	0.245	—



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZERESIN UR 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System

Two-Part Pure
Polyurea Waterproofing System

REF: ARSN-UR200-VP350-0122

PROCESSING PROPERTIES

PROPERTY	TYPICAL VALUE
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume
Material consumption, kg/m ² /1mm	Approx. 1.0
Dry film thickness range [mm]	Steel Minimum: 1.0 Maximum: indefinite Concrete Minimum: 1.5 Maximum: indefinite
Recommended thickness [mm]	Minimum: 1 Maximum: unlimited
Tack Free-Time at 25 °C [sec.]	15 - 30 (dependent on ambient & substrate temperature)
Over coat cycle [h]	0 – 10 (without any pre-treatment)
Curing/loading after [h]	(Walkable: 1) (Mechanical: 2) (Chemical: 12 - 24)
Temperature range for application (ambient) [°C]	0 to +50
Temperature range for application (substrate) [°C]	0 to +50
Material Temperature (Preconditioning) [°C]	25 to 30
Material Temperature (Spraying) [°C]	70 to 80
Maximal relative air humidity for application [%]	98
Dew point limitations	Substrate temperature must be 3K above Dew point



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZERESIN UR 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System

Two-Part Pure Polyurea Waterproofing System

REF: ARSN-UR200-VP350-012

GENERAL INSTALLATION GUIDELINES

- AWAZERESIN UR 200 can only be applied using efficient high pressure heated plural component spray equipment by trained and approved applicators.
- In ambient temperatures below 15°C chemical drums should be pre-heated using band heaters to 30 – 40 °C.
- The B-side component should be thoroughly power stirred prior to the commencement of spraying and periodically during the spraying process to ensure there is no settling out of the components.
- The Pigment is always mixed into the B-side using a power stirrer.
- Both the A-side and B-side drums should be fitted with desiccant dryers.
- Compressed air supply should be supplied via an air dryer.
- Primary heaters should be set at between 65 - 75°C. Adjustments can be made on-site based on environmental conditions, mixing module size and application circumstances.
- Hose heaters should be set at 70 °C. Adjustments can be made on-site based on environmental conditions, mixing module size and application circumstances.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Spray personnel must be trained and approved by the AWAZEL.
- Spray personnel should wear appropriate PPE including approved breathing equipment, eye wear, Nylex or similar light weight spray suit and appropriate covered footwear.
- Avoid breathing evaporating material during spraying or mixing
- Avoid eye and skin contact.
- For more information on safety measures consult the product's Material Safety Data Sheet.

APPLICATION ATTRIBUTES

ATTRIBUTE	RESULT	TEST METHOD
VOC content	0 %	DIN EN ISO 11890-1 / ASTM D-1259
Maximum processing temperature	Wet: 45 Dry: 90 Peak temperature dry: 120	ISO 11346 / ASTM D-2485
Storage conditions [°C]	10 – 30 (in closed original drums)	DIN EN 12701
Shelf life	Approximately 18 months	—

NOTE (1): The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

NOTE (2): Since this product is highly elastic and a stretchable type of membrane, deviation in length and width may occur after storing and/or application due to stretching stress.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZERESIN UR PW 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System
Compliance: BS 6920

Two-Part Polyurea Waterproofing System For Potable Water Tanks

REF: ARSN-VP-URPW200-0422

THIS PRODUCT

AWAZERESIN UR PW 200 is an elastomeric, fast-setting, spray-applied, seamless, and flexible protective liquid membrane. It is a high performance technology suitable for use in a wide range of applications that require long service life protection, abrasion and impact resistance while safeguarding the structure against destructive chemicals. AWAZERESIN UR PW 200 is safe to use in various applications including potable water tanks internal lining and waterproofing within temperatures fluctuating between 23 °C and 40 °C. Due to its composition and formula AWAZERESIN UR 200 prevents bacterial growth which avails a healthy environment in both food processing and pharmaceutical laboratories. AWAZERESIN UR 200 can deliver best results only when proper surface preparation, priming and equipment efficiency guidelines are followed.

USES

Substrate protections and waterproofing in:

- Potable water reservoirs
- Storage tanks
- Canals and via-ducts
- Rainwater storage tanks
- Fish ponds and breeding tanks
- De-salination plants
- Water bottling and cleaning plants
- Pharmaceutical laboratories
- Food processing areas

FEATURES & ADVANTAGES

- VOC compliant
- Seamless Application
- Fast setting and fast tack-free times (approx. 5 seconds)
- Fast return-to-service (approx. 48 hrs.)
- Sustains flexibility while adapting to both temperature and humidity fluctuations
- Excellent elongation and crack-bridging capabilities
- Excellent abrasion and impact resistance
- Excellent resistance to aggressive chemicals, bleaches and oil spillage
- Excellent tensile strength
- Resistant to UV, chlorine and saltwater
- Excellent adhesion to concrete, steel, aluminum, synthetics, fibers, wood and foam substrates.
- Can be applied across multiple substrates in the same application process
- Remains flexible under a wide range of climatic conditions
- Cost and time saving through a single process application to any thickness required
- High solid content (100%)

STORAGE & HANDLING

- Store chemical drums in a cool dry environment.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical drums are kept tightly sealed and avoid ingress of air and moisture.

SUPPLY & PACKAGING

- 425 Kg. set



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZERESIN UR PW 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System
Compliance: BS 6920

Two-Part Polyurea Waterproofing System
For Potable Water Tanks

REF: ARSN-VP-URPW200-0422

CHARACTERISTICS

PROPERTY	VALUE	TEST METHOD
Hardness [Shore D]	45 ± 5	ISO 868-2003 / ASTM D-2240
Elongation at break [%]	≥ 410	ISO 37-2005 / ASTM D-638
Modul [MPa]	100% Elongation: ≥10- 300% Elongation: ≥15	ISO 37-2005 / ASTM D-638
Tensile strength [MPa]	≥ 24	ISO 37-2005 / ASTM D-638
Density [g/cm ³]	1.02 ± 0.02	EN ISO 1183 / ASTM D-972
Density [g/cm ³] @ 20°C	(PART A: 1.011 ± 0.02) (PART B: 0.98 ± 0.02)	DIN EN ISO 2811-2 / ASTM D-1217
Viscosity [mPa*s] @ 25°C	(PART A: 300- 900) (PART B: 350- 700)	DIN EN ISO 2884-2 / ASTM D-4878
Solid content	100%	DIN EN 827 / ASTM D-2697
Impact Resistance [J/mm]	(23 °C 9.0) (-5 °C 7.0)	DIN EN 10290-2004 Class: A
Surface resistance [Ohm]	≥ 1,0*10 ¹¹	DIN IEC 60167
Volume resistance [Ohm]	≥ 1,0*10 ¹¹	DIN IEC 60093
Rebound resilience [%]	≥ 39	ISO 4662 / ASTM D-7121
Tear growth resistance[N/mm]	≥ 40	ISO 34-1 method A
Volume abrasion [mm ³]	≤ 185	DIN ISO 4649
Taber Abrasion [mg]	< 15 (Wheel CS17 / 1.000g / 1000 Cycles) < 135 (Wheel H18 / 1.000g / 1000 Cycles)	ASTM D-4060
Pull off strength [Mpa]	(Concrete: ≥ 1.5) (Steel: ≥ 6)	DIN EN ISO 4624 / ASTM D-4541
Peel off strength [N/mm]	(Concrete: ≥ 4) (Steel: ≥ 8)	ISO 813 / ASTM D-903
Antibacterial Activity	2,2 : Result „good“ (99,0-99,9%) – (Bacteria:S.aureus) 2,4 : Result „good“ (99,0-99,9%) – (Bacteria:E.coli)	ASTM D-2485
Solids content	45 ± 5	ISO 868-2003 / ASTM D-2240
Potable water approval	WRAS (UK) up to 23°C	BS 6920
Potable water approval	Standard Institution (IL) up to 40°C	SI 5452
Surface resistance [Ohm]	≥ 1,0*10 ¹¹	DIN IEC 60167
Volume resistance [Ohm]	≥ 1,0*10 ¹¹	DIN IEC 60167



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZERESIN UR PW 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System
Compliance: BS 6920

Two-Part Polyurea Waterproofing System
For Potable Water Tanks

REF: ARSN-VP-URPW200-0422

PROCESSING PROPERTIES

PROPERTY	VALUE	TEST METHOD
Min. Process temp. [°C]	Dry:-40	ASTM D-2485
Max. Process temp. [°C]	Wet: 60, Dry: 130 Peak temperature dry: 150	ASTM D-2485
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume	
Material consumption [kg/m ² /1mm]	Approx. 1- 1.2	
Recommended thickness [mm]	Minimum: 1 – Maximum: unlimited	
Gel time @ 20 °C [sec.]	5- 15 (dependent on the temperature of the substrate)	
Tack free time @ 20 °C [sec.]	15- 30 (dependent on the temperature of the ambient)	
Over coat cycle [h]	0 – 12 (without any pre-treatment)	
Curing/loading after [h]	Walkable: 1 Mechanical: 2 Chemical: 12- 24	
Temperature range for application (ambient) [°C]	(-10) - (+50)	
Temperature range for application (substrate) [°C]	(-10) - (+50)	
Material Temperature (Preconditioning) [°C]	25- 30	
Material Temperature (Spraying) [°C]	70- 80	
Maximal relative air humidity for application [%]	98	



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZERESIN UR PW 200

Two-Part, Pure, Spray-Applied, High-Performance Polyurea Lining & Waterproofing System
Compliance: BS 6920

Two-Part Polyurea Waterproofing System
For Potable Water Tanks

REF: ARSN-VP-URPW200-0422

GENERAL INSTALLATION GUIDELINES

- AWAZERESIN UR PW 200 can only be applied using efficient high pressure heated plural component spray equipment by trained and approved applicators.
- In ambient temperatures below 15 °C chemical drums should be pre-heated using band heaters to 30–40 °C.
- The B-side component should be thoroughly power stirred prior to the commencement of spraying and periodically during the spraying process to ensure there is no settling out of the components.
- The Pigment is always mixed into the B-side using a power stirrer.
- Both the A-side and B-side drums should be fitted with desiccant dryers.
- Compressed air supply should be supplied via an air dryer.
- Primary heaters should be set at between 65°C - 75°C. Adjustments can be made on-site based on environmental conditions, mixing module size and application circumstances.
- Hose heaters should be set at 70 °C. Adjustments can be made on-site based on environmental conditions, mixing module size and application circumstances.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Spray personnel must be trained and approved by the AWAZEL.
- Spray personnel should wear appropriate PPE including approved breathing equipment, eye wear, Nylex or similar light weight spray suit and appropriate covered footwear.
- Avoid breathing evaporating material during spraying or mixing
- Avoid eye and skin contact.
- For more information on safety measures consult the product's Material Safety Data Sheet.

ATTRIBUTES

PROPERTY	VALUE	TEST METHOD
Chemical Base	Comp. A: MDI-Prepolymer Comp. B: Polyetheramine-Mixture	-
VOC-content	0%	ISO 11346 / ASTM D-2485
Colour	Miscellaneous (Upon request)	DIN EN 12701
Shelf life	Approximately 12 months Unopened and stored properly	-

NOTE (1): The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

NOTE (2): Since this product is highly elastic and a stretchable type of membrane, deviation in length and width may occur after storing and/or application due to stretching stress.



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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**MEMBRANE PROTECTION
BOARDS**

BITUMEN-BASE
PROTECTION BOARDS



TABLE OF CONTENTS

MEMBRANE SHIELD (MS)

Bituminous Protection Boards

Compliance: ASTM D 6506

Semi-Rigid

Membrane Protection Boards

REF: MFG-AWBR-PB-0324

THIS PRODUCT

MEMBRANE SHIELD (MS) is a line of semi-rigid protection boards used for protecting waterproofing membranes against backfill potential damages in below-grade applications. MS protection boards are manufactured from select fine aggregates bound in oxidized asphalt which are encased between two layers of glass fibre composite mats saturated with asphalt thus forming dense, semi-rigid and durable boards with high compressive strength capable of bearing typical related pressures and to support foundation steel reinforcement. MS Boards can also be used as a support-panel over insulation boards in roofing applications.

USES & APPLICATIONS

- Protecting bituminous membranes in below-grade applications against backfill in vertical applications.
- As alternative to protective screed in below-grade waterproofing applications (MS 60)
- As a support panel above thermal insulation in conventional roofing applications.

STORAGE & HANDLING

- Material should be kept in original packing in a properly ventilated shaded area.
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- High compressive strength
- High dimensional stability
- Durable and easy to apply
- Accommodates temperature fluctuations
- Compatible with all AWAZEL's bituminous membranes

GENERAL INSTALLATION GUIDELINES

In Below-Grade Applications:

- Torch the underside of the board and adhere onto the membrane. The boards could be butt-jointed or overlapped by 20 mm.

In Roofing Applications:

- MS boards could be loose-laid and butt-jointed over thermal insulation boards as a support panel and protection under roof finish assembly.

SHELF LIFE

- 12 months from date of production when properly stored in original sealed containers.



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MEMBRANE SHIELD (MS)

Bituminous Protection Boards

Compliance: ASTM D 6506

Semi-Rigid
Membrane Protection Boards

REF: MFG-AWBR-PB-0324

CHARACTERISTICS

PROPERTY	NOMINAL VALUE			TEST METHOD
	MS 30	MS 40	MS 60	
Density, g/cc	1.1 - 1.4			UEAtc, M.O.A.T 30
Softening point of coating asphalt, °C	>100			ASTM D 36
Puncture resistance, N	230	330	375	ASTM E 154
Static puncture resistance	L_2 (Not punched) @ 7 kg load	L_3 (Not punched) @ 15 kg load	L_4 (Not punched) @ 25 kg load	UEAtc M.O.A.T. 27
Dynamic puncture resistance	L_1 (Not perforated) @ 25-30 mm indenter	L_2 (Not perforated) @ 15-20 mm indenter	L_3 (Not perforated) @ 8-12 mm indenter	UEAtc M.O.A.T. 27

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUE			TEST METHOD
	MS 30	MS 40	MS 60	
Board thickness, mm	3.0	4.0	6.0	UEAtc, M.O.A.T 30 ASTM D 5147
Unit weight of board, kg/m ²	> 3.5	> 4.6	> 6.7	UEAtc, M.O.A.T 30 ASTM D 5147
Board size, m (Standard)	2 x 1			UEAtc, M.O.A.T 30 ASTM D 5147



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MEMBRANE SHIELD (MSX HP)

High Puncture Resistance, Rot-Proof Oxidized Bitumen Protection Boards

MSX 20 HP

MSX 30 HP

MSX 40 HP

Rigid Membrane Protection Boards

REF: MFG-AWBR-MSXHP-0324

THIS PRODUCT

MEMBRANE SHIELD (MSX HP) is a line of rigid protection boards manufactured from a distinct blend of oxidized bitumen and reinforced with a special carrier, used for protecting waterproofing membranes against backfilling or concreting potential damages in below-grade applications. MSX HP protection boards extend their benefits of high puncture resistance and high compressive strength to the waterproofing assembly to enhance the capability of bearing typical related pressure required for high performance waterproofing systems. MSX HP protection boards can also be used as support-panels over corrugated metal roofs under membrane waterproofing systems to provide an even substrate for a roofing system build up.

USES & APPLICATIONS

- Protecting bituminous membranes in below-grade applications against backfill in vertical applications.
- As alternative to protective screed in below-grade waterproofing applications (MSX 40 HP)
- As a support panel above thermal insulation in conventional roofing applications.

STORAGE & HANDLING

- Material should be kept in flat position, in original packing & in a properly ventilated shaded area.
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Exceeds the requirements of ASTM D 6506
- High puncture resistance
- High compressive strength
- High dimensional stability
- Durable and easy to apply
- Accommodates temperature fluctuations
- Compatible with all AWAZEL's bituminous membranes

GENERAL INSTALLATION GUIDELINES

In Below-Grade Applications:

- Torch the underside of the board and adhere onto the membrane. The boards could be butt-jointed. Overlapping is not necessary.

In Roofing Applications:

- MSX HP boards could be loose-laid or mechanically fastened and butt-jointed over thermal insulation boards as a support panel and protection under roof finish assembly.

SHELF LIFE

- 12 months from date of production when properly stored in original sealed containers.



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TECHNICAL DATA SHEET

MEMBRANE SHIELD (MSX HP)

High Puncture Resistance, Rot-Proof Oxidized Bitumen Protection Boards

MSX 20 HP
MSX 30 HP
MSX 40 HP

Rigid
Membrane Protection Boards

REF: MFG-AWBR-MSXHP-0324

CHARACTERISTICS

PROPERTY	NOMINAL VALUE			TEST METHOD
	MSX 20 HP	MSX 30 HP	MSX 40 HP	
Density, g/cc	1.1 - 1.4			UEAtc, M.O.A.T 30
Softening point of coating asphalt, °C	>100			ASTM D 36
Puncture resistance, N	1200	1500	1500	ASTM E 154
Impact resistance, Kg	123	153	153	ASTM E 154
Static puncture resistance	L ₂ (Not punched) @ 7 kg load	L ₃ (Not punched) @ 15 kg load	L ₃ (Not punched) @ 15 kg load	UEAtc M.O.A.T. 27
Dynamic puncture resistance	I ₂ (Not perforated) @ 15-20 mm indenter	I ₃ (Not perforated) @ 8-12 mm indenter	I ₃ (Not perforated) @ 8-12 mm indenter	UEAtc M.O.A.T. 27

NOTES:

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- 2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
- 3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

SUPPLY & PRESENTATION

PROPERTY	NOMINAL VALUE			TEST METHOD
	MSX 20 HP	MSX 30 HP	MSX 40 HP	
Board thickness, mm	2.0	3.0	4.0	UEAtc, M.O.A.T 30 ASTM D 5147
Unit weight of board, kg/m ²	2.5	3.5	4.6	UEAtc, M.O.A.T 30 ASTM D 5147
Board size, m (Standard)	2 x 1		UEAtc, M.O.A.T 30 ASTM D 5147	



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PRODUCT TECHNICAL DATA SHEET

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SUBSTRATE PRIMERS

WATER-BASE BITUMEN EMULSION PRIMERS
SOLVENT-BASE BITUMEN PRIMERS
EPOXY PRIMER
POLYURETHANE PRIMER

TABLE OF CONTENTS

PRIMER D-41

Solvent Base Substrate Primer

Compliance: ASTM D 41 & SASO-ASTM-D41M

Solvent-Base Bituminous Primer

REF: AWPR-D41-1125

THIS PRODUCT

AWAZEL PRIMER D-41 is an asphaltic primer suitable for uses in roofing, damp proofing and waterproofing applications. It is used as surface dressing for concrete, masonry, and metal substrates to improve the bond of bituminous waterproofing materials whether in below or above ground levels. AWAZEL PRIMER D-41 is a solvent-base universal primer, manufactured from a select blend of bitumen, suitable for application over different substrates to enhance the bond of AWAZEL's torched, heat-welded or self-adhering bituminous membranes.

USES & APPLICATIONS

- Roofing
- Waterproofing
- Damp-proofing

STORAGE & HANDLING

- All pails and drums should be stored in an upright position
- All pails and drums should be kept away from flame sources within a well-ventilated storage area.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Conforms to the requirements of ASTM D 41 & SASO 2057
- Improves the bond of bituminous materials to substrates
- Good binder for dust particles
- Formulated to suit hot and tropical climates

GENERAL INSTALLATION GUIDELINES

- AWAZEL PRIMER D-41 can be applied by brush, roller or spray equipment. Stir the material properly for 2 minutes prior to use.
- Using roller apply AWAZEL PRIMER D-41 over the entire substrate and areas that require following waterproofing works.
- Follow the specified coverage rate of 0.2- 0.3 kg/m²
- Areas subject to waterproofing shall all be primed maximum 24 hours prior to the installation of the waterproofing membrane. This includes – but not limited to – corners, upstands and inside of podium concrete drainage
- Areas where localised discolored patches are noticed, could be re-coated to achieve a uniform



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PRIMER D-41

Solvent Base Substrate Primer
Compliance: ASTM D 41 & SASO-ASTM-D41M

Solvent-Base
Bituminous Primer

REF: AWPR-D41-1125

CHARACTERISTICS

PROPERTY (REQUIREMENTS BY ASTM D 41 & SASO-ASTM-D41M)	TYPICAL VALUE	TEST METHOD
Saybolt Furol Viscosity at 25°C, seconds,	25 - 125	ASTM D 88
Distillate volume (%) of Primer Up to 225 °C Up to 360 °C	35 (min.) 65 (max.)	ASTM D 402
Penetration of residue from distillation, dmm	20 - 50	ASTM D 5
Solubility of distillation residue in trichloroethylene, %	99 min.	ASTM D 2042 ASTM D 6511
Water Content, volume %	0.5 (max)	ASTM D 95

NOTES:

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This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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PRIMER D-41

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Compliance: ASTM D 41 & SASO-ASTM-D41M

Solvent-Base
Bituminous Primer

REF: AWPR-D41-1125

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Density (Specific gravity) at 25°C, g/cc	0.89 - 0.93	ASTM D 70
Brookfield Viscosity at 25°C, cP	50 - 250	ASTM D 4402
Dry-to-touch, hours	3 - 4	Physical
Through dry (fully dry), hours	24	Physical
Flash point (Tag Cup Open), °C	>35	ASTM D 3143
Non volatile matter, Wt., %	>50	ASTM D 402
Volatile matter, Wt., %	<50	ASTM D 402
VOC (Volatile Organic Compounds)	< 400	VOC Meter (ASTM D 2369)

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SUPPLY & PRESENTATION

PROPERTY	TYPICAL VALUE
Packaging	180 kg Drum / 16 kg Pail
Coverage	0.2 – 0.3 kg/m ²



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AWAZEPRIME CA 100

Cold-Applied, General Purpose Waterproofing Bitumen Primer

Liquid-Applied Waterproofing Primer

REF: MFG-AWPSF-001-0223

THIS PRODUCT

AWAZEPRIME CA 100 is a cold applied, environment-friendly, bitumen primer manufactured from a select blend of modified bitumen compound. AWAZEPRIME CA 100 has a thixotropic consistency that supports the ease of application on both vertical and horizontal substrates while sustaining its performance even when subjected to prolonged submersion in water. AWAZEPRIME CA 100 forms a seamless, uniform waterproofing film over various types of substrates that ultimately becomes resistant to aggressive chemicals in the soil or weathering conditions. AWAZEPRIME CA 100 maybe used over fresh concrete as a curing compound providing compatibility with AWAZEL's membranes.

USES & APPLICATIONS

AWAZEL CA PRIMER is ideal to use as a: Surface primer prior to the application of waterproofing membranes, surface dressing coat, adhesion enhancer over the following substrates:

- Masonry
- Concrete
- Metal

SUPPLY & PACKAGING

- 16 kg pails

COVERAGE

- Over Concrete Substrates: 3 – 4 m²/Kg/coat
- Over steel substrates: 8 – 10 m²/Kg/coat

STORAGE & HANDLING

- Material should be kept in original packing in a properly ventilated shaded area.
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable serviceability
- VOC compliant
- Environmentally friendly
- Controlled drying period.
- Excellent bonding capability
- Non-Toxic
- Does not propagate fire.
- Excellent resistance to chemicals and
- Viable to use as a curing agent over green concrete

GENERAL INSTALLATION GUIDELINES

Surface Preparation: The surface must be clean and free of dirt, dust oil, grease.

- All the loose particles and protrusions must be removed with suitable means.
- For concrete substrate: Keep in an SSD condition (Saturated Surface Dry) prior to application of AWAZEPRIME CA 100. To achieve an SSD condition, saturate the surface with water then remove ponding water keeping the surface moist to improve the application.

Application: Stir AWAZEPRIME CA 100 for 3 minutes using a slow-speed drill 300 rpm.

- Over concrete substrates: Depending on the substrate's porosity apply a coat of AWAZEPRIME CA 100 at the coverage rate of 3 – 4 m²/Kg/coat.
- Over steel substrates: apply a coat of AWAZEPRIME CA 100 at the coverage rate of 8 – 10 m²/Kg/coat.
- If required; two coats of AWAZEPRIME CA 100 may be applied. Once the first coat has dried out (24 hours) apply the second coat – perpendicular to the first coat – at the same consumption rate.

SHELF LIFE

- 12 months from date of production when properly stored in original sealed containers.



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AWAZEPRIME CA 100

Cold-Applied, General Purpose Waterproofing Bitumen Primer

Liquid-Applied
Waterproofing Primer

REF: MFG-AWPSF-001-0223

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Saybolt Furol Viscosity at 25°C, Seconds,	20 - 100	ASTM D 88
Appearance	Wet: Dark brown Dry : Black	Visual
Solid Content, %	Min. 60	ASTM D 2939
Specific Gravity at 25°C	Min. 0.95 Max. 1.10	ASTM D 2939
Flash point	Non Flammable	ASTM D 93
Drying time, to touch dry, hours	4 - 5	MRDD- 13(97)
Resistance to Salts & Acids	Excellent	Immersion
Adhesion to Concrete surfaces	Excellent	Physical Method
Compatibility with Bituminous membrane	Excellent	Physical Method

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AWAZEPRIME PU 100

Single-Component Polyurethane Primer
(Formerly known as AWAZEL PU PRIMER)

Liquid-Applied
Polyurethane Primer

REF: COM-AWP-PU100-AL-0323

THIS PRODUCT

AWAZEPRIME PU 100 is a solvent-base, single component, moisture-curing, transparent Polyurethane primer with extra penetrative power. AWAZEPRIME PU 100 is compatible with many types of coatings whether Polyurethane, Polyurea where it is used to promote the adhesion and enhance the bond strength between multi-layer waterproofing or flooring coating systems and the substrate. AWAZEPRIME PU 100 could also be used as a protective film whereby resistance to oils, grease, moisture, chemicals and other liquid substrate staining material may be required.

USES & APPLICATIONS

The AWAZEPRIME PU 100 is mainly used as a primer prior to applying Polyurea or Polyurethane waterproofing coatings and polyurethane joint-sealants on absorbent and nonabsorbent surfaces such as:

- Concrete
- Lightweight concrete
- Cement Screeds
- Mortar
- Steel
- Wood

CONSUMPTION

200 - 250 g/m²/coat. This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, may affect performance.

STORAGE & HANDLING

- Pails should be stored in dry and cool storage spaces for up to 12 months.
- Protect the material against moisture and direct sunlight.
- Store in controlled temperature between 5°C – 30°C.
- Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

FEATURES & ADVANTAGES

- Simple application (roller or airless spray).
- Excellent bond and adhesion to substrates.
- Excellent resistance to chemicals
- Fast setting

GENERAL INSTALLATION GUIDELINES

PREPARATION: Careful Surface preparation is essential to realize optimum finish and durability:

- The surface must be clean, dry and sound, free of any contamination and/or protrusions that may negatively affect the adhesion of the primer.
- Any loose particles, debris must be removed prior to the application of AWAZEPRIME PU 100.
- Surface irregularities must be carefully flattened.
- Old coatings, dirt, fats, oils, organic substances, and dust must be removed by a grinding machine.
- Maximum moisture content should not exceed 5%.
- New concrete structures need to be fully cured after 28 days.
- Sandblasting is an ideal preparation method of preparation prior to the application of primers and coatings to achieve the best bond possible between material and the substrate.
- **WARNING:** Do not wash surface with water!

Priming: For best results, the temperature during application and cure should be between 5°C and 35°C.

- Low temperatures retard curing while high temperature speeds up curing which may lead cracking. High humidity may affect the final finish.
- Apply the AWAZEPRIME PU 100 by roller or brush over the substrate until the surface to be primed is entirely covered. For large-span areas surfaces, an airless spray application is ideal.
- Allow to cure for 2-3 hours (not later than 24 hours) and while the primer is still a bit tacky, apply the following coat of Polyurethane, Polyurea waterproofing coating or the polyurethane joint-sealant.
- **RECOMMENDATION:** for rough surfaces such as lightweight foam concrete or Perlite screed, apply two layers of the AWAZEPRIME PU 100.



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AWAZEPRIME PU 100

Single-Component Polyurethane Primer
(Formerly known as AWAZEL PU PRIMER)

Liquid-Applied
Polyurethane Primer

REF: COM-AWP-PU100-AL-0323

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Composition	Polyurethane Pre-polymer, Solvent Based	—
Specific Weight, g/cm ³	0.98	ASTM D1478 / DIN 53217 / ISO 2811 @20°C
Elongation at 23°C, %	>150	ASTM D412 / EN-ISO-527-3
Tensile strength at break at 23°C, N/mm ²	35	ASTM D412 / EN-ISO-527-3
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN 1928, Test A
Adhesion to concrete, N/mm ²	3.3 ± 0.2 N/mm ² (Concrete failure)	ASTM D 1640
Application Temperature	5°C to 35°C	Conditions: 20°C, 50% RH
Tack Free Time, Hours	2 - 3	
Light Pedestrian Traffic Time, Hours	12	
Application of Main Membrane, Max. Hours	24	
Adhesion with AWAZEL's Polyurethane liquid membranes, N/mm ²	5	ASTM D 1640

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HEALTH & SAFETY

- AWAZEPRIME PU 100 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data Sheet.

SHELF LIFE

- A 12 months when stored in cold storage spaces (5°C- 30°C) in original un-opened containers.

SUPPLY & PACKAGING

- 20 kg pails
- 10 kg pails
- 1 kg tins



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AWAZEPRIME EP 200

High-solids, Low Viscosity Epoxy Primer

High Solid Content
Epoxy Primer

REF: AWP-EP200-0922

THIS PRODUCT

AWAZEPRIME EP 200 is a high-solids, low viscosity epoxy system consisting of two pre-measured components used for sealing concrete pores prior to the installation of liquid-applied waterproofing resin systems. It can also be used for general surface levelling (in combination with quartz granules). AWAZEPRIME EP 200 can also be used for priming properly prepared metal substrates as part of a waterproofing system. Depending on the substrate porosity AWAZEPRIME EP 200 can be diluted with AWAZEL SOLVENT to improve liquid penetration and adhesion performance.

USES

- Priming concrete and metal substrates
- Priming substrates prior to the application of AWAZEL's AWAZERESIN UR 200 Polyurea system

SUPPLY & PACKAGING

- 10 Kg
- 5 Kg

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well-ventilated area at an a temperatures between 10~30°C.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste manager. If the containers still have some material residue, do not mix with other product with no knowledge of potentially dangerous reactions.

FEATURES & ADVANTAGES

- High solid content
- Excellent surface penetration
- Improves bond strength of subsequent coatings
- Homogeneous sealing of surface pores
- Excellent chemical resistance

GENERAL INSTALLATION GUIDELINES

- **SURFACE PREPARATION:** Concrete substrates must be prepared mechanically using high pressure sandblasting or abrasion to scuff the surface and obtain an open pore.
- Sharp irregularities should be eliminated using an abrading disc machine.
- Eliminate all dust and loose particles from the substrate by brushing or vacuum cleaning.
- **MIXING:** Add component "A" to component "B" and mix thoroughly using a low-speed drill mixer for 3 minutes until the composition turns into a clear homogeneous clear liquid.
- Do not mix more material than the amount usable within the pot life window.
- Mixing with sand quartz is possible for other intended uses.
- **APPLICATION:** Apply using a roller at the coverage rate mentioned herein.
- On porous substrates, a first coat maybe diluted, followed by a second undiluted coat. Use adequate amount to ensure complete surface sealing depending on substrate porosity. Do not apply over hot surfaces.
- On large span areas it is recommended to broadcast sand quartz while the coat is still wet to realise a rough surface to improve the adhesion of the following waterproofing system coat.
- As a Levelling Coat: mix with suitable self-levelling sand/filler (50% or 100% sand depending on desired surface roughness).
- As an Adhesion Layer Over Metal or Other substrates: Apply 300 to 500 g/m², followed by light sand aggregates broadcasting.

CONSUMPTION

- **AS A PRIMER:**
- **Concrete Substrates:** 200 to 500 g/m² applied in two or three layers.
- **Metal Substrates:** 300 to 500 g/m² applied in two or three layers.
- **AS A LEVELING COMPOUND:** 2 kg/m²

NOTE: Consumption may vary depending on substrate condition and porosity.



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TECHNICAL DATA SHEET

AWAZEPRIME EP 200

High-solids, Low Viscosity Epoxy Primer

High Solid Content
Epoxy Primer

REF: AWP-EP200-0922

CHARACTERISTICS - PRIOR TO MIXING

PROPERTY	COMPONENT "A"	COMPONENT "B"
Chemical description	Epoxy resin	Polyamine mixture
Physical state	Liquid	Liquid
Non-volatile content (%)	100 (approx.)	98 (approx.)
Flash point, °C	120	> 100
Density @25 °C	1.14	1.05
Colour	Colourless (hazy)	Slightly yellow
VOC, g/Ltr.	7	20
Mix ratio by weight	100	47

CHARACTERISTICS - POST MIXING

PROPERTY	RESULT
Density, g/cm ³ @23 °C	1.01
Viscosity, MPa @23 °C	480
Pot life @25 °C, minutes	40
Colour	Colourless or slightly yellow

CHARACTERISTICS - POST APPLICATION

PROPERTY	RESULT
State	Solid
Colour	Colour
Hardness shore A	80 D
Elongation, %	7.5
Colour	Colourless or slightly yellow
Tensile strength, MPa	23
Adhesion strength to concrete, MPa	5.0
Solid density, g/cm ³	1.15
UV Resistance	slight yellowing under sunlight. No impact on neither physical nor mechanical properties
Curing time, hrs	[@35 °C, 25% h, 2 hrs.], [@25 °C, 50% h, 8 hrs.], [@23 °C, 5% h, 9 hrs.]

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PRODUCT TECHNICAL DATA SHEET

AWAZEL

AUXILIARY PRODUCTS

DOUBLE-SIDED SELF-ADHERING TAPES
PRE-CUT DAMPROOFING MEMBRANES



TABLE OF CONTENTS

STICKO TAPE R

Reinforced Bituminous Tape, Surfaced with Soliconised Release Film on Both Sides

Double-Sided Self-Adhering
Bituminous Tape

REF: AWST-OR-322

THIS PRODUCT

STICKO TAPE R is a double-sided self-adhering tape reinforced with a reinforcement carrier saturated with a specially formulated rubberized bituminous compound and surfaced with siliconized release film on both sides. STICKO TAPE R is pressure-sensitive used in various applications in the construction industry to allow two elements of waterproofing and protective boards to bond together to serve the purpose of forming a steady waterproofing assembly.

FEATURES & ADVANTAGES

- Cold applied
- Excellent adhesion properties
- Compatible with bituminous membrane and protection boards (bitumen &/or HDPE)

USES

- STICKO TAPE R is specially designed for use as an adhesive tape for fixing protection boards (AWAZEL MS) or (AWAZEL DIMPLE SHEET) onto AWAZEL's waterproofing membranes in below-grade applications.
- Adhering bitumen impregnated joint filler boards (AWAZEL FIBERBOARD FB)
- Seaming overlaps (side-laps & end-laps) of AWAZEL DIMPLE SHEET drainage and protection boards

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should always wear protective gear during installation.
- For more information, consult the product's Material Safety data Sheet.

GENERAL INSTALLATION GUIDELINES

- Remove the release film from one side, adhere the Tape onto the surface of the installed membrane and press well.
- Peel off the other release film, place the Protection Board against the tapes, align it well, and then push the board tightly against the membrane side.

STORAGE & HANDLING

- The material should be stored in a shaded area in original packing

SHELF LIFE

12 months when properly stored in original packing. See storage & handling instructions.



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STICKO TAPE R

Reinforced Bituminous Tape, Surfaced with Soliconised Release Film on Both Sides

Double-Sided Self-Adhering Bituminous Tape

REF: AWST-OR-322

PROPERTY	STICK-O-TAPE-R
Cooling asphalt	SBS Modified asphalt
Softening point of coating asphalt, °C	> 100
Adhesion strength, N / mm	5.0 N / mm
Surfacing - Top & Bottom	Silicon released film

NOTES:

(1) All above values are nominal and are subject to internationally recognized standards tolerance.

(2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

(3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

SUPPLY & PRESENTATION

PROPERTY	STICK-O-TAPE-R
Tape width, cm	5, 10 & 15
Roll length, meters	10 & 20



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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**GEOSYNTHETIC
SHEET MEMBRANES**



TABLE OF CONTENTS

AWAZEPLY PVC HYDRO

UV Resistant PVC Waterproofing Sheet Membrane for Hydraulic Works

Heat-Welded

Geosynthetic Sheet Membranes

REF: AWZPLY-PVCHDRO-SP-0622

THIS PRODUCT

AWAZEPLY PVC HYDRO is a specially pre-fabricated, synthetic PVC geomembrane used for waterproofing large-span water retaining structures where intensive hydraulic pressure is projected. AWAZEPLY PVC HYDRO is UV resistant and is suitable for use in swimming pools, artificial lakes and ponds where resistance to salty water, micro-organisms or mild chemicals is required.

USES

Substrate protections and waterproofing in:

- Potable water reservoirs
- Artificial lakes, ponds
- Swimming pools
- Water features
- Water dams
- Water bottling and cleaning plants
- Pharmaceutical laboratories
- Food processing areas

SUPPLY & PACKAGING

- Thickness: 1.5 mm, 1.8 mm, 2.00 mm

FEATURES & ADVANTAGES

- High resistance to UV
- Highly resistant to mild chemicals
- Durable with a long service life
- Highly resistant to micro-organisms
- Root resistant
- Puncture resistant

GENERAL INSTALLATION GUIDELINES

- Surface must be clean, dry and free from any protrusions
- A layer of AWAZETEX 500 g/m² is fixed over the substrate prior to installing AWAZEPLY PVC HYDRO
- AWAZEPLY PVC HYDRO membrane sheets are mechanically fixed over AWAZETEX 500, welded by an automatic welding machine or manually with a hot-air gun.
- Welding could be made in either a single-track or in a double-track method.

STORAGE & HANDLING

- Rolls should be stored in a properly shaded and dry area
- Keep in original packing away from any sources of fire, damage or contamination until ready to use



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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TECHNICAL DATA SHEET

AWAZEPLY PVC HYDRO

UV Resistant PVC Waterproofing Sheet Membrane for Hydraulic Works

Heat-Welded
Geosynthetic Sheet Membranes

REF: AWZPLY-PVCHDRO-SP-0622

CHARACTERISTICS

PROPERTY	AWAZEPLY PVC HYDRO			TEST METHOD
	1.5	1.8	2.0	
Mass per unit area (Kg/m ²)	≥ 1.95	2.34	2.60	EN 1849-2
Static puncture resistance (N)	≥ 1800	≥ 2160	≥ 2450	EN ISO 12236
Water permeability	< 10 ⁶ M ³ -2D ⁻¹			EN 14150
Tensile strength (N/mm ²)	≥ 17.5			EN ISO 527-3
Durability: Tensile (oxidation variation %)	≥ 25			EN 14575
Tensile (weathering variation %)	≥ 25			EN 12224
Cold bending (°C)	≥ (-30)			EN 495-5
Elongation @ break (%)	≥ 300			EN ISO 527-3
Resistance to root penetration	No penetration			CEN TS 14416
Tear resistance (N/mm)	≥ 80			EN 12310-2
Tear resistance (N/mm)	≥ 45			ISO 34 (fig2)
Resistance to thermal ageing in submerged conditions: Variation in tensile strength (%): Loss in mass (%)	< 25 < 5			EN 14415 (A and B)
Resistance to artificial ageing: (19 GL/m ² (6000 h)	≥ 6000 h (no cracks)			EN ISO 4892-2 : 2006 Method A cycle n°1
Resistance to action of: fungi, bacteria and soil microorganisms Loss of mass (%)	≤ 5.0			EN ISO 846:1997/D
Resistance to chlorine	≥ degree 3			EN 15836 (Annex C)

ATTRIBUTES

PROPERTY	AWAZEPLY PVC HYDRO		
	1.5	1.8	2.0
Roll length (lm)	20		
Roll width (lm)	2.10		
Rolls / pallet	23	18	18
Top side colour	Sand		
Underside colour	Dark grey		



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AWAZELINER LDP 1000

Low Density Polyethylene Liner, Root-barrier & Stabilization Sheet

Liners
Stabilization Sheets

REF: AWLNRS-LDP1000-0522

THIS PRODUCT

AWAZELINER LDP 1000 is a durable high-mass, low-density polyethylene liner that combines the features of long-term service-life and superior mechanical properties. AWAZELINER LDP 1000 is used for soil stabilization in urban development projects and as a bond-breaker between pavement quality concrete and subbase in the road construction industry. AWAZELINER LDP 1000 is also an excellent root barrier used in green roofing and dense vegetation landscaping under the soil to inhibit root and weed growth penetration of the waterproofing assembly. It could also be used as a separation layer between thermal insulation boards and waterproofing membrane as a bond-breaker to prevent adhesion of both elements to each other while controlling and reducing the passage of moisture.

USES

- Separation layer in roofing applications
- Root barrier in green roofing applications
- Soil stabilization over compacted soil in below-grade applications
- Moisture & vapour barrier in road construction applications

SUPPLY PACKAGING

- 3.66 m x 10 m Rolls

STORAGE & HANDLING

- Store in dry conditions at temperatures below 50°C and protected from UV-light.
- Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

FEATURES & ADVANTAGES

- Low density
- Prevents vapour and moisture intrusion
- Prevents root penetration
- Rot and decay resistant

TYPICAL INSTALLATION PROCEDURES

- **In Road Construction:** Lay down AWAZELINER LDP 1000 between pavement quality concrete (pqc) and subbase layer to form a bond-breaker.
- **In Below-Grade applications:** Lay over compacted soil prior to casting blinding concrete (PCC) to form a stabilization layer under the concrete.
- **In Green Roofing Applications:** Lay down under the soil to prevent root penetration.
- **In Roofing Applications (if 1000 gauge specified):** lay down over waterproofing membrane prior to laying thermal insulation boards.

SHELF LIFE

- 12 months from production date when stored under recommended conditions.



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AWAZELINER LDP 1000

Low Density Polyethylene Liner, Root-barrier & Stabilization Sheet

Liners
Stabilization Sheets

REF: AWLNRS-LDP1000-0522

CHARACTERISTICS

PROPERTY	TYPICAL RESULTS		TEST METHOD
Dart drop	250 g		ISO 7765-1
Instrumented puncture test (Total Penetration Energy)	20 J/mm		ISO 7765-2
Hazr	70 %		ASTM D 1003
Tensile strain at break ¹	MD	450%	ISO 527-3
Tensile strain at break	TD	750 %	
Tensile strength	MD	55 MPa	ISO 527-3
Tensile strength	TD	45 MPa	
Tensile modulus	MD	250 MPa	ISO 527-3
Tensile modulus	TD	300 MPa	
Tear resistance	MD	75 N/mm	ISO 6383/2
Tear Resistance	TD	250 N/mm	
Coefficient of friction (Dynamic)	0.4		ISO 8295

Md1 = Machine direction, TD = Transverse direction

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AWAZEGEO HDPE LINER-S

High Performance HDPE Liner Membrane for Geotechnical Engineering Works

High Performance HDPE Liners - Smooth

REF: COMM_AWLNRs_HDPE-S-1224

THIS PRODUCT

AWAZEGEO HDPE LINER-S is a reliable smooth polyethylene HDPE membrane designed for use in various municipal, agricultural, and industrial applications. AWAZEGEO HDPE LINER-S is a versatile line of products manufactured from high grade of Polyethylene raw material, produced by cross laminating two sheets of high-density polyethylene through a methodical manufacturing process thus creating additional strength for optimum puncture and tear resistance and equal physical and mechanical properties in all directions. This unique process of manufacturing supports the molecular structure of the membrane to intensify its resilience and service life. AWAZEGEO HDPE LINER-S is UV stable, resistant to the deteriorating effects of direct sunlight and other weathering conditions.

USES & APPLICATIONS

- Landfill caps
- Artificial lakes
- Canal linings
- Oilfield pit liners
- Mine tailing ponds
- Decorative ponds
- Primary containment
- Shrimp & fishponds
- Farm ponds
- Rainwater harvesting storage
- Irrigation reservoirs
- Canals
- Dams
- Leachate collection ponds
- Wastewater ponds
- Secondary containment

SUPPLY & PACKAGING

- 7 m x 100 m rolls

FEATURES & ADVANTAGES

- Sturdy
- Durable
- UV stable
- Flexible
- Dimensionally stable
- Fast and easy to apply
- Resistant to weathering conditions
- Resistant to chemicals in the soil
- Resistant to root penetration
- Resistant to rodents and microbials
- Excellent puncture resistance
- Excellent tear resistance
- Excellent environmental stress cracking resistance
- Corrosion resistant
- Resistance to ageing

GENERAL INSTALLATION GUIDELINES

- Application of AWAZEGEO HDPE LINER-S depends on various factors, including the specific project requirements, site conditions, and the type of installation.
- The best application method for HDPE liner membranes involves careful site preparation, appropriate installation techniques, and robust seaming methods to ensure durability and impermeability.
- Preparations: Clear and level the area where AWAZEGEO HDPE LINER-S shall be installed. Remove sharp objects, rocks, and debris to prevent damage.
- Ensure the subgrade is properly compacted to provide a stable base for the liner
- Loose-Laid Method: Lay AWAZEGEO HDPE LINER-S flat over the prepared surface without anchoring.
- Stake & Anchor Method: Anchor down the edges of AWAZEGEO HDPE LINER-S using stakes, sandbags, or similar material (effective for sloped areas)
- Seams are joined using heat welding or extrusion welding
- Seaming techniques:
 - Hot Air Welding Involves using a hot air gun to melt the edges of the liner for fusion
 - Extrusion Welding: Uses a welding rod and extruder to create a strong seam.



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AWAZEGEO HDPE LINER-S

High Performance HDPE Liner Membrane for Geotechnical Engineering Works

High Performance
HDPE Liners - Smooth

REF: COMM_AWLNRs_HDPE-S-1224

CHARACTERISTICS

PROPERTY		TEST METHOD	TYPICAL VALUE				
Thickness, mm		D 5199	0.75	1.00	1.50	2.00	3.00
Density, g/cc		D 1505/ D792	0.94				
Tensile Properties	Yield strength, KN/m	TYPE IV	11	15	22	29	44
	Break strength, KN/m		20	27	40	53	80
	Yield elongation, %		12	12	12	12	12
	Break elongation, %		700	700	700	700	700
Tear resistance, N		D 1004	93	125	187	249	374
Puncture resistance, N		D 4833	240	320	480	640	960
Stress crack resistance, hr.		D 5397			300		
Carbon black content, %		D 4218			2.0 - 3.0		
Oxidative Induction time	Standard OIT, min.	D 3895			100		
	High pressure OIT, min.	D 5885			400		
Oven aging 85°C retained after 90 days	Standard OIT, %	D 3895			50		
	High pressure OIT, %	D 5885			80		
High pressure OIT retained after 1600 hrs, %		D 5885			50		

NOTES:

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- 3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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AWAZEGEO HDPE LINER-T

High Performance HDPE Liner Membrane for Geotechnical Engineering Works

High Performance HDPE Liners - Textured

REF: COMM_AWLNRs_HDPE-T-1224

THIS PRODUCT

AWAZEGEO HDPE LINER-T is a reliable smooth polyethylene HDPE membrane designed for use in various municipal, agricultural, and industrial applications. AWAZEGEO HDPE LINER-T is a versatile line of products manufactured from high grade of Polyethylene raw material, produced by cross laminating two sheets of high-density polyethylene through a methodical manufacturing process thus creating additional strength for optimum puncture and tear resistance and equal physical and mechanical properties in all directions. This unique process of manufacturing supports the molecular structure of the membrane to intensify its resilience and service life. AWAZEGEO HDPE LINER-T is UV stable, resistant to the deteriorating effects of direct sunlight and other weathering conditions. AWAZEGEO HDPE LINER-T is more suitable for applications whereby high coefficient of friction is required.

USES & APPLICATIONS

- Landfill caps
- Slope covers
- Sediment control retaining structures
- Artificial lakes
- Canal linings
- Oilfield pit liners
- Mine tailing ponds
- Decorative ponds
- Primary containment
- Shrimp & fishponds
- Farm ponds
- Rainwater harvesting storage
- Irrigation reservoirs
- Canals
- Dams
- Leachate collection ponds
- Wastewater ponds
- Secondary containment

FEATURES & ADVANTAGES

- Sturdy
- Durable
- UV stable
- Flexible
- Dimensionally stable
- Fast and easy to apply
- Resistant to weathering conditions
- Resistant to chemicals in the soil
- Resistant to root penetration
- Resistant to rodents and microbials
- Excellent puncture resistance
- Excellent tear resistance
- Excellent environmental stress cracking resistance
- Corrosion resistant
- Resistance to ageing
- High coefficient of friction

GENERAL INSTALLATION GUIDELINES

- Application of AWAZEGEO HDPE LINER-S depends on various factors, including the specific project requirements, site conditions, and the type of installation.
- The best application method for HDPE liner membranes involves careful site preparation, appropriate installation techniques, and robust seaming methods to ensure durability and impermeability.
- Preparations: Clear and level the area where AWAZEGEO HDPE LINER-S shall be installed. Remove sharp objects, rocks, and debris to prevent damage.
- Ensure the subgrade is properly compacted to provide a stable base for the liner
- Loose-Laid Method: Lay AWAZEGEO HDPE LINER-S flat over the prepared surface without anchoring.
- Stake & Anchor Method: Anchor down the edges of AWAZEGEO HDPE LINER-S using stakes, sandbags, or similar material (effective for sloped areas)
- Seams are joined using heat welding or extrusion welding
- Seaming techniques:
 - Hot Air Welding Involves using a hot air gun to melt the edges of the liner for fusion
 - Extrusion Welding: Uses a welding rod and extruder to create a strong seam.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZEGEO HDPE LINER-T

High Performance HDPE Liner Membrane for Geotechnical Engineering Works

High Performance
HDPE Liners - Textured

REF: COMM_AWLNRs_HDPE-T-1224

CHARACTERISTICS

PROPERTY		TEST METHOD	TYPICAL VALUE			
Thickness, mm		D 5994	1.00	1.50	2.00	2.50
Asperity height, mm		D 7466	0.25			
Density, g/cc		D 1505/ D792	0.94			
Tensile Properties	Yield strength, KN/m	D 6693 TYPE IV	15	22	29	37
	Break strength, KN/m		10	16	21	26
	Yield elongation, %		12	12	12	12
	Break elongation, %		100	100	100	100
Tear resistance, N		D 1004	125	187	249	311
Puncture resistance, N		D 4833	267	400	534	667
Stress crack resistance, hr.		D 5397	300			
Carbon black content, %		D 4218	2.0 - 3.0			
Carbon black dispersion		D 5596	For 10 different views: 9 in categories 1 or 2 and 1 in category 3			
Oxidative Induction time	Standard OIT, min.	D 3895	100			
	High pressure OIT, min.	D 5885	400			
Oven aging 85°C retained after 90 days	Standard OIT, %	D 3895	55			
	High pressure OIT, %	D 5885	80			
High pressure OIT retained after 1600 hrs, %		D 5885	50			

NOTES:

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3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.

SUPPLY & PACKAGING

- 7 m x 100 m rolls



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AWAZEgeo HDPE VB 200

High Density Polyethylene Vapour Barrier & Liner

Synthetic, High-Density
Polyethylene Geomembranes

REF: COMM-AWGHDPEVB-090225

THIS PRODUCT

AWAZEgeo HDPE VB 200 is a High-Density Polyethylene geomembrane commonly used in the construction industry domain as an effective vapour barrier laid over compacted soil or as a separation layer between waterproofing membranes and protective screed in below-grade applications or as a separation layer between waterproofing and thermal insulation in roofing assemblies. AWAZEgeo HDPE VB 200 are resistant to salts, acids and alkalis present in the soil. Due to its composition AWAZEgeo HDPE VB 200 is highly resistant to moisture, preventing water vapor from penetrating through the structure, which helps protect against mold and mildew growth.

USES & APPLICATIONS

- Vapour barrier over compacted soils and under blinding concrete.
- Separation layer between waterproofing and thermal insulation.
- Root barrier in construction and greenhouses.

SUPPLY & PACKAGING

- Supplied in rolls 1 m x 2 m rolls
- Film Thickness: From 800 gauges (200 Microns)

STORAGE & HANDLING

- Supplied in rolls 1 m x 2 m rolls
- Film Thickness: From 800 gauges (200 Microns)
- AWAZEgeo HDPE VB 200 should be kept flat in original packing in a shaded area.

FEATURES & ADVANTAGES

- Durable
- Resistant to punctures and tears and environmental stressors
- Resistant to UV radiation
- Cost effective
- Lightweight and easy to handle
- Low permeability, effectively inhibiting the passage of water vapor and maintaining the integrity of the building envelope
- Moisture resistant
- Chemical resistant
- High resistance to most chemicals

GENERAL INSTALLATION GUIDELINES

- Carefully unroll AWAZEgeo HDPE VB 200 liner and lay it over the prepared soil. Avoid dragging the liner over rough surfaces.
- Joining side & end-laps: Use appropriate methods (e.g., welding, adhesive) as specified by The Engineer to ensure a lap tightness.
- Protection: If specified, lay a layer of AWAZELTEX AWAZEgeo HDPE VB 200 liner to protect it from damage during the placement of the blinding concrete.



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AWAZEgeo HDPE VB 200

High Density Polyethylene Vapour Barrier & Liner

Synthetic, High-Density
Polyethylene Geomembranes

REF: COMM-AWGHDPEVB-090225

CHARACTERISTICS

PROPERTY	NOMINAL VALUE	TEST METHOD
Density at 24 °C (unpigmented)	0.923 - 0.925	ASTM D 1505
Tensile Strength, N/5cm (Longitudinal) (Transverse)	150 - 200 120 - 160	ASTM D 882
Elongation, %	200%	ASTM D 882
Heat seal range, °C	115 - 175	—
Moisture Loss, g/cm ²	0.055	ASTM C 156

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SUPPLY & PRESENTATION

ATTRIBUTE	RESULT
Thickness (nominal)	200 micron (μ)
Roll length	1000 Lm
Roll width	102 cm



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

ADHESIVE COMPOUNDS

BITUMEN COMPOUNDS
RESINOUS COMPOUNDS



TABLE OF CONTENTS

AWAZEGLUE EP 300

Antifungal, Antibacterial Epoxy Adhesive & Grout

Compliance: ANSI A118.3

Antifungal, Antibacterial
High Performance Adhesives

REF: COMM-PC-AWGLEP300-1223

THIS PRODUCT

AWAZEGLUE EP 300 is a three-part, high-performance antifungal, antibacterial solvent-free epoxy resin-based adhesive and grouting system. AWAZEGLUE EP 300 provides excellent bond to various substrates while exhibiting excellent resistance to chemicals present within medium and heavy-duty corrosive and hygienic environments. AWAZEGLUE EP 300 is designed to provide tight and reliable fixing of ceramic tiles in dry or submerged conditions, suitable for use in a wide range of applications. Due to its antibacterial properties AWAZEGLUE EP 300 helps stop the spread of microorganisms that may cause diseases; thus, it becomes ideal for use in medical institutions and food processing settings. Where and when traditional cementitious adhesives may not endure harsh and critical conditions, AWAZEGLUE EP 300 is an ideal choice due to its resilience and resistance to commonly known salts, acids, alkalis, fats, concentrated bleach, saturated sugar solution, saturated urea solution, white spirit, oil, petrol, grease, Xylene, Butanol and Skydrol.

USES & APPLICATIONS

The product is recommended for wall and floor tiling in:

- Food processing areas
- Bottling plants
- Residential & industrial kitchens
- Spas and steam rooms
- Swimming pools
- Hospitals
- Laboratories
- Manufacturing plants
- Electrical substations
- Workshops and garages

SUPPLY & PACKAGING

- 5 L pack (Three parts)

SHELF LIFE

12 months from manufacturing date when kept in original unopened containers.

FEATURES & ADVANTAGES

- Excellent chemical resistance
- Excellent water and vapour resistance
- Outstanding resistance to bacterial and fungal growth
- Excellent tolerance to humidity
- Impact and vibration resistant
- Available in a wide range of colours

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The substrate must be clean, dry and free from any dust, debris and loose particles
- All contaminants such as oil, grease or friable material should be completely removed.
- Mixing: Pour AWAZEGLUE EP 300 base (Part "A") into a clean container and mix using a slow-speed mechanical mixer (300 rpm) for 3 minutes.
- AWAZEGLUE EP 300 hardener (Part "B") and mix for another 3 minutes.
- Add AWAZEGROUT EP 300 aggregates (Part "C") slowly and continuously into the container and mix the 3 parts together until a uniform and homogeneous mix is realized
- Application: The mixed material should be applied to the substrate using a toothed tiling comb.
- The tiles should be pressed firmly in place using a twisting action to ensure good contact with the adhesive.
- Typical adhesive depths will approx. 3 – 4 mm.
- Remove any excess adhesive from the surface of the tiles with a dry cloth immediately.
- The joints between tiles may be grouted using AWAZEGLUE EP 300 applied by plastic spatula, working on a maximum area of 0.5m² at a time.

HEALTH & SAFETY

- AWAZEGLUE EP 300 should not come in contact with eyes or skin, nor should it be ingested.
- Application team must wear safety goggles and protective gloves.
- Splashes on the skin must be immediately washed off by water and detergents.
- Splashes to the eyes must be rinsed with clean and warm water.
- Seeking medical attention is highly recommended and mandatory.



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TECHNICAL DATA SHEET

AWAZEGLUE EP 300

Antifungal, Antibacterial Epoxy Adhesive & Grout

Compliance: ANSI A118.3

Antifungal, Antibacterial
High Performance Adhesives

REF: COMM-PC-AWGLEP300-1223

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	STANDARD
Compressive strength, Kg/cm ²	>800	ANSI A118.3
Tensile strength, Kg/cm ²	>75	ANSI A118.3
Shear Bond, Kg/cm ²	>75	ANSI A118.3
Shear Bond after thermal shock, Kg/cm ²	>55	ANSI A118.3
Dry Shrinkage, %	0.01	ANSI A118.3
Water cleanability	80 min	ANSI A118.3
Initial setting time	>150 min	ANSI A118.3
Sag in vertical joints	No sag	ANSI A118.3

ATTRIBUTES

PROPERTY	TYPICAL VALUE
Mixed density, Kg/l	1.6 ± 0.05
Flash point, °C	>150
VOC (USEPA 24), g/l	8.0
Working Time (ASTM C308)	45 mins
Full cure	7 days
Chemical resistance to Elements Legend	
Lactic acid	10 %
Citric acid	10 %
Phosphoric acid	40 %
Hydrochloric acid	50 %
Sulphuric acid	50 %
Ammonia	10 %
Caustic soda	50 %

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COVERAGE (THEORETICAL)

Tile adhesive: 0.5 m² /lit @ 2mm thickness

Tile size (w x b) mm	Tile thickness	Joint width	Grout consumption
200 x 200	6 mm	5 mm	0.37 lit/m ²
400 x 500	6 mm	5 mm	0.17 lit/m ²

NOTE: Actual coverage depends on joints dimension



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AWAZEGLUE PS 100

Antifungal, Antibacterial Polystyrene Adhesive

General Purpose High Viscosity,
High Performance Adhesives

REF: AGPS100-1022

THIS PRODUCT

AWAZEGLUE PS 100 is a water-base, highly viscous, resinous adhesive that comprises special synthetic resins and additives designed for adhering different products to each other and suitable for application over a variety of substrates. AWAZEGLUE PS 100 is simple to apply over porous or non-porous surfaces thus provides reliable adhesion performance.

USES & APPLICATIONS

AWAZEGLUE PS 100 is suitable for adhering the following material to one another jointly or individually:

- Polystyrene Boards
- EPDM Rubber
- PVC sheets
- Vinyl sheets
- Vinyl flooring tiles
- Polystyrene boards
- Polyurethane foam
- Polyisocyanurate boards
- Fiberglass insulation boards
- Metal sheets
- Wood panels
- Concrete

SUPPLY & PACKAGING

- Available in 20 kg pails

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at temperatures between 10~30°C.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.
- Strict measures must be taken to prohibit smoking within the storage vicinity.
- Open container spout only and do not open container lid to minimize the evaporation.

FEATURES & ADVANTAGES

- VOC compliant
- Environmentally safe.
- Simple and user-friendly application
- Fast setting.
- Fire Resistant.
- Excellent coverage rates (depending on type of substrate)
- Suitable to a large variety of substrates
- Non-flammable
- Heat resistant.
- Water and moisture repellent

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION: Surface of both substrates must be clean, free of dust and/or debris.

- The surface has to be leveled, sound, dry and clean (according to BS 8203).

APPLICATION: Apply AWAZEGLUE PS 100 uniformly over the substrate using a trowel, brush or roller

- Allow to set for approximately 12-18 minutes until it becomes tacky then lay the other material while applying uniform pressure.
- Clean any excess adhesive with water immediately.

SHELF LIFE

- Shelf life of 12 months (unopened & stored properly)

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precaution as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste manager. If the containers still have some material residue, do not mix with other product with no knowledge of potentially dangerous reactions.



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AWAZEGLUE PS 100

Antifungal, Antibacterial Polystyrene Adhesive

General Purpose High Viscosity,
High Performance Adhesives

REF: AGPS100-1022

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Base	Synthetic resin
Color	Cream
Viscosity @25°C, S6, rpm 20	25000 to 50000 cps
Density	1.3 ± 0.10
Coverage	800 - 950g ./ m ² depending on type of surface and application
Open Time	10 – 30 minutes depending on ambient temperature, substrate & application
Cleaning	Clean all tools immediately with warm water
Tensile Strength	2.5N/mm
Flashpoint	Non Flammable

NOTES:

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AWAZEGLUE RB 100

Single-Component Tackified-Rubber Adhesive

Material Adhesive
Agent

REF: AWG-RB100-0922

THIS PRODUCT

AWAZEGLUE RB 100 is a single component adhesive paste that comprises special rubber components tackified with high performance augmenting additives. AWAZEGLUE RB 100 is specially developed for application over porous and non-porous substrates within hot and humid weathering conditions to adhere diverse types of products that complement roofing and waterproofing systems.

USES

Suitable to use with the following material either to each other or over concrete & metal substrates:

- Bitumen protection boards
- Bitumen impregnated fiber boards
- Fiberglass boards
- Ceramic fiber
- EPDM membranes
- Bitumen membranes
- Mineral wool boards
- Various insulation boards (contact AWAZEL)
- GI sheets

SUPPLY & PACKAGING

- 5 Ltr
- 15 Ltr

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well-ventilated area at an a temperatures between 10~30°C.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.
- Strict measures must be taken to prohibit smoking within the storage vicinity.
- Open container spout only and do not open container lid to minimize the evaporation.

FEATURES & ADVANTAGES

- Diverse substrate suitability
- Excellent bond strength
- High water & moisture resistance
- Excellent heat resistance
- Excellent chemical resistance
- Weathering tolerant
- Easy to apply

GENERAL INSTALLATION GUIDELINES

- **SURFACE PREPARATION:** Surface should be clean, dry and free from oil, grease and loose particles.
- Remove dust and loose particles from the substrate by brushing or vacuum cleaning.
- Sharp irregularities should be eliminated using an abrading disc machine.
- **APPLICATION:** Apply AWAZEGLUE RB 100 with brush, roller or pressure feeding equipment evenly on both surfaces
- Wait for 5 to 10 minutes until solvent has evaporated.
- Assemble the surface by applying normal hand pressure.
- Do not use material more than the amount usable within the pot life window.
- **OPEN TIME:** 5 - 20 minutes depending upon applied film thickness, substrate and climatic conditions.

CONSUMPTION

- Wet coverage: 3-4 m²/ltr subject to type of substrate and nature of material.

SHELF LIFE

- Up to 12 months (un-opened containers and when stored as per directives herein)

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste manager. If the containers still have some material residue, do not mix with other product with no knowledge of potentially dangerous reactions.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZEGLUE RB 100

Single-Component Tackified-Rubber Adhesive

Material Adhesive
Agent

REF: AWG-RB100-0922

CHARACTERISTICS

PROPERTY	RESULT
Base	Neoprene Rubber
Colour	Black/Brown
Solid %	20 ± 5
Consistency	Flowable liquid
Viscosity @ 25°C, S6, rpm 20	5000-10000 cps (Brook field)
Service temperature	-10 to + 70 °C
Density	0.90 ± 0.05
Flammability	Nonflammable when completely dried out (up to 240 °C)
Application temperature.	(+10 to +50 °C)
Chemical resistance	Good resistance to most chemicals
Solubility	Aromatic solvent

NOTES:

(1) Above values are subject to internationally recognized standards tolerance.

(2) The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

(3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZEGLUE AMG RB 100

Single-Component Tackified-Rubber Adhesive

Material
Adhesive Agent

REF: MNFG-AWZGL-AMG-RB-100

THIS PRODUCT

AWAZEGLUE AMG RB 100 is a single component adhesive paste that comprises special rubber components tackified with high performance augmenting additives. AWAZEGLUE AMG RB 100 is specially developed for application over porous and non-porous substrates within hot and humid weathering conditions to adhere diverse types of products that complement roofing and waterproofing systems.

USES & APPLICATIONS

Suitable to use with the following material either to each other or over concrete & metal substrates:

- Bitumen protection boards over self-adhering membranes
- Bitumen impregnated fiber boards
- Fiberglass boards
- AWAZEL DIMPLE SHEET (to-self) or over membrane
- EPDM membranes
- Bitumen membranes
- Mineral wool boards
- Various insulation boards (contact AWAZEL)
- GI sheets

SUPPLY & PACKAGING

- 18 kg pails

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at an a temperatures between 10~30°C.
- Avoid storing chemicals for long periods in direct sunlight.
- Ensure chemical containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.
- Strict measures must be taken to prohibit smoking within the storage vicinity.
- Open container spout only and do not open container lid to minimize the evaporation.

FEATURES & ADVANTAGES

- Diverse substrate suitability
- Excellent bond strength
- High water & moisture resistance
- Excellent heat resistance
- Excellent chemical resistance
- Weathering tolerant
- Easy to apply

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION: Surface should be clean, dry and free from oil, grease and loose particles.

- Remove dust and loose particles from the substrate by brushing or vacuum cleaning.
- Sharp irregularities should be eliminated using an abrading disc machine.

APPLICATION: Apply AWAZEGLUE AMG RB 100 with brush, roller or pressure feeding equipment evenly over one substrate.

- Assemble the second substrate over the glue-coated substrate while applying normal hand pressure.
- Do not use material more than the amount usable within the pot life window.

THEORETICAL CONSUMPTION

- Wet coverage: 3- 4 m²/Kg subject to type of substrate and nature of material.

SHELF LIFE

- Shelf life of 12 months (unopened & stored properly)

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precaution as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste manager. If the containers still have some material residue, do not mix with other product with no knowledge of potentially dangerous reactions.



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AWAZEGLUE AMG RB 100

Single-Component Tackified-Rubber Adhesive

Material
Adhesive Agent

REF: MNFG-AWZGL-AMG-RB-100

CHARACTERISTICS

PROPERTY	NOMINAL VALUE	TEST METHOD
Brookfield Viscosity at @25°C, S4, 4 rpm, cPs	> 5000	Brookfield Viscometer
Flexibility at -20 to - 25°C (for base compound)	No Cracking	DIN 52123
Heat Resistance at 60°C (for base compound)	No Sagging	ASTM D 4479
Drying time to touch, hours	3 - 5	MRDD- 13(97)
Adhesion to dry surface	Excellent	ASTM D 3409
Adhesion to membranes and protection boards	Excellent	ASTM D 3409

NOTES:

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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**CONCRETE SURFACE
TREATMENT**
FLOOR HARDENER



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

CONCRETE FOAMING AGENT

LIGHT WEIGHT FOAM CONCRETE
FOAMING AGENT



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TECHNICAL DATA SHEET

Formerly known as "AWAZEL CFA 1000"

AWAZEFOAM CFA 1000

High Quality Concrete Foaming Agent

Foaming Agent
For Light Weight Foam Concrete

REF: AWCF1000-0823

THIS PRODUCT

AWAZEFOAM CFA 1000 is a high-quality foaming agent used in the production of aerated concrete for roofing applications. AWAZEFOAM CFA 1000 generates foaming medium for a reliable dry density between 400 kg /m³ – 1000 kg /m³. AWAZEFOAM CFA 1000 is easy to use with different types of foam generating equipment. It lends its properties to the concrete to reduce its thermal conductivity while structural members could be formed with greater ease.

USES & APPLICATIONS

- Production of aerated light weight concrete in flat or sloped roofing applications.
- Improving the roof assembly's thermal and acoustic insulation properties.
- Forming roof members without the addition of unnecessary load on the roof slab.

SUPPLY & PACKAGING

- 20 L Pails
- 200 L Drums

STORAGE & HANDLING

- AWAZEFOAM CFA 1000 should be stored in its original packing in a shaded area, away from direct sunlight between 5 °C and 45 °C

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should always wear protective gear during installation.
- For more information, consult the product's Material Safety data Sheet.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

FEATURES & ADVANTAGES

- Good thermal insulation values
- Good acoustic insulation values
- Safe to use with iron and steel rebars
- Low water absorption
- Resistant to fire
- Resistant to organic growth
- Chloride free
- Economical to use

GENERAL INSTALLATION GUIDELINES

CEMENT

- The quality of the cement shall mainly determine the strength of the concrete.
- It should be fresh and fine to yield a homogeneous pasty mix.

WATER

- Water should meet the standards of drinking water.

WATER-CEMENT RATIO

- Water-cement ratio is very critical due to its impact on the quality of foam concrete.
- The compressive resistance of the foam concrete is also determined by the homogenous distribution of the pores. The more even the distribution and smaller are the pores, the better the compressive strength. The homogeneity is again a function of the consistency and thus of the water ratio.
- According to experience the most advantageous water-cement ratio lies between 0.4 L and 0.45 L. Excessive water would have an adverse effect on the setting period.
- Our experience has shown that one cubic meter of foam concrete requires between 400 - 450kg of cement depending on initial densities.
- The above is a general guideline. Accurate water-cement ratio depends on type of cement and projects' specifications.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly known as "AWAZEL CFA 1000"

AWAZEFOAM CFA 1000

High Quality Concrete Foaming Agent

Foaming Agent

For Light Weight Foam Concrete

REF: AWCFA1000-0823

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Specific gravity at 20 °C	1.1
Chloride content	Nil
Nitrate content	Nil
Solubility in water	Infinite
Freezing point, °C	< 0
Flash Point	None
VOC, g/L	8.0 - 10.0
Appearance	Light yellow liquid

NOTES:

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TABLE "A" CRUSHING STRENGTH (Approx.)

DENSITY (Kg./m ³)	COMPRESSIVE STRENGTH (Kg./cm ²)	MATERIAL
300	4	Only cement
400	5	Only cement
500	12	Only cement
600	14	Only cement
650	17	290kg (cement) + 300kg (sand)

TABLE B – APPROXIMATE VALUES

MIX	TYPE	WATER / CEMENT RATIO	DRY DENSITY (28 DAYS Kg/m ³)
Neat Cement	Pre-foamed	0.70 – 0.85	480
Neat Cement	Pre-foamed	0.45 – 0.55	480
Neat Cement	Pre-foamed	0.45 – 0.55	600 – 700
1:1 sand: cement	Entrained or Pre-foamed	0.45 – 0.55	1120
2:1 sand: cement	Entrained or Pre-foamed	0.55 – 0.65	960 - 1120
3:1 sand: cement	Entrained or Pre-foamed	0.65 – 0.75	1440
4:1 sand: cement	Entrained or Pre-foamed	0.75 – 0.85	1600 1200



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

GEOTEXTILE FABRIC MEMBRANES

NON-WOVEN GEOTEXTILE
POLYPROPYLENE GEOTEXTILE
REINFORCEMENT FABRIC



TABLE OF CONTENTS

AWAZEL FABRIC

Non-Woven Polyester Geotextile Fabric

Non-Woven
Geotextile Fabrics

REF: AWTX-PB-322

THIS PRODUCT

AWAZEL FABRIC is a pre-cut, lightweight, non-woven geotextile 100% polyester stitch-bonded fabric with a high absorption capability used for reinforcing multiple layers of AWAZEL's liquid membranes thus enhancing the mechanical properties of the application.

FEATURES & ADVANTAGES

- High elongation
- Lightweight
- High absorption capacity

USES

- Embedded reinforcement within AWAZEL's liquid waterproofing membranes.
- Detailing around substrate penetrations and crack repair when saturated with AWAZEL's liquid membranes.

SUPPLY & PACKAGING

1 m x 50 m roll
0.2 m x 50 m roll

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should always wear protective gear during installation.
- For more information, consult the product's Material Safety data Sheet.

GENERAL INSTALLATION GUIDELINES

- AWAZEL FABRIC is easy to use when embedded with AWAZEL's waterproofing liquid membranes where a first coat of the liquid membrane is coated over the substrate.
- While the first coat is still damp, AWAZEL FABRIC shall be embedded within the liquid membrane.
- Allow the application to fully cure then a second coat of the liquid membrane is coated over the entire application saturating AWAZEL FABRIC entirely.

STORAGE & HANDLING

- Rolls should be kept in a flat position in a properly ventilated and shaded storage area in original packaging.
- Keep away from any source of flame.
- Avoid over stacking of material.

SHELF LIFE

12 months when properly stored in original packaging as per storage & handling instructions.

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TECHNICAL DATA SHEET

AWAZEL FABRIC

Non-Woven Polyester Geotextile Fabric

Non-Woven
Geotextile Fabrics

REF: AWTX-PB-322

PROPERTY	AWAZEL FABRIC	TEST METHOD
Net weight	60 – 65 g / m ²	
Elongation	62 %	ASTM D1682
Mullen burst	783 N (176 lbf)	ASTM D3786
Tensile strength	393 kPa (57 psi)	ASTM D1682
Tear strength	71 N (16 lbf)	ASTM D1117

NOTES:

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AWAZEL TEX 85

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF:COMM-AWTEX85-0623

THIS PRODUCT

AWAZEL TEX 85 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Reinforcement fabric for AWAZEL's liquid-applied waterproofing membranes

SUPPLY & PACKAGING

- 2.9m wide & 100m long rolls
- 3.0m wide & 100m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts
- normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZEL TEX 85 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZETEX 85 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZEL TEX 85

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF:COMM-AWTEX85-0623

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile strength (kN/m)	3.0	ASTM D 4595
Elongation (%)	>50	ASTM D 4595
Grab tensile strength (N)	240	ASTM D 4632
Grab tensile elongation (%)	>55	ASTM D 4632
Mass/unit Area (gsm)	85	ASTM D 5261
Thickness (mm)	0.7	ASTM D 5199
Trapezoidal Tear Strength (N)	80	ASTM D 4533
Puncture strength (CBR) (N)	650	ASTM D 6241
Flow Water Rate-5cm head (l/m ² /sec)	100	ASTM D 4491
AOS (microns)	100	ASTM D 4751
UV Resistance @ 150 hrs (% Strength Retained)	>85	ASTM D 4355

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 100

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX100-ENISO-0624

THIS PRODUCT

AWAZELTEX 100 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Reinforcement fabric for AWAZEL's liquid - applied waterproofing membranes.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 100 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 100 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 100

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX100-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	1.2	EN ISO 9863-1
Mass/unit area (gsm)	100	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	2.5/2.5	EN ISO 10319
Elongation (%)	45/55	EN ISO 10319
CBR puncture resistance (N)	450	EN ISO 12236
Dynamic cone drop (mm)	40	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	100	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZELTEX 120

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX120-ENISO-0624

THIS PRODUCT

AWAZELTEX 120 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Reinforcement fabric for AWAZEL's liquid - applied waterproofing membranes.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 120 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 120 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 120

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX120-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	1.3	EN ISO 9863-1
Mass/unit area (gsm)	120	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	3.0/3.0	EN ISO 10319
Elongation (%)	45/55	EN ISO 10319
CBR puncture resistance (N)	500	EN ISO 12236
Dynamic cone drop (mm)	37	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	95	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZELTEX 140

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX140-ENISO-0624

THIS PRODUCT

AWAZELTEX 140 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Reinforcement fabric for AWAZEL's liquid - applied waterproofing membranes.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 140 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 140 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 140

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non-Woven
Geotextile Fabrics

REF: COMM-AWTEX140-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2kPa, (mm)	1.5	EN ISO 9863-1
Mass/unit area (gsm)	140	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	4.0/4.0	EN ISO 10319
Elongation (%)	45/55	EN ISO 10319
CBR puncture resistance (N)	650	EN ISO 12236
Dynamic cone drop (mm)	33	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	90	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 150

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX150-ENISO-0624

THIS PRODUCT

AWAZELTEX 150 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Reinforcement fabric for AWAZEL's liquid - applied waterproofing membranes.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 150 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 150 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 150

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX150-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	1.6	EN ISO 9863-1
Mass/unit area (gsm)	150	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	4.2/4.2	EN ISO 10319
Elongation (%)	45/55	EN ISO 10319
CBR puncture resistance (N)	675	EN ISO 12236
Dynamic cone drop (mm)	32	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	87	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZELTEX 180

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX180-ENISO-0624

THIS PRODUCT

AWAZELTEX 180 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 180 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 180 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 180

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX180-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2kpa , (mm)	1.8	EN ISO 9863-1
Mass/unit area (gsm)	180	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	5.0/5.0	EN ISO 10319
Elongation (%)	45/55	EN ISO 10319
CBR puncture resistance (N)	850	EN ISO 12236
Dynamic cone drop (mm)	30	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	80	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 200

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX200-ENISO-0624

THIS PRODUCT

AWAZELTEX 200 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 200 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 200 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 200

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non-Woven
Geotextile Fabrics

REF: COMM-AWTEX200-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa, (mm)	2.0	EN ISO 9863-1
Mass/unit area (gsm)	200	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	5.5/5.5	EN ISO 10319
Elongation (%)	45/55	EN ISO 10319
CBR puncture resistance (N)	975	EN ISO 12236
Dynamic cone drop (mm)	27	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	75	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 250

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX250-ENISO-0624

THIS PRODUCT

AWAZELTEX 250 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 250 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 250 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 250

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX250-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	2.2	EN ISO 9863-1
Mass/unit area (gsm)	250	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	7.5/7.5	EN ISO 10319
Elongation (%)	45/55	EN ISO 10319
CBR puncture resistance (N)	1300	EN ISO 12236
Dynamic cone drop (mm)	23	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	70	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 300

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX300-ENISO-0624

THIS PRODUCT

AWAZELTEX 300 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 300 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 300 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 300

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non-Woven
Geotextile Fabrics

REF: COMM-AWTEX300-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa, (mm)	2.5	EN ISO 9863-1
Mass/unit area (gsm)	300	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	10/8.5	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	1500	EN ISO 12236
Dynamic cone drop (mm)	20	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	65	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 350

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX350-ENISO-0624

THIS PRODUCT

AWAZELTEX 350 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 350 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 350 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 350

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX350-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	2.8	EN ISO 9863-1
Mass/unit area (gsm)	350	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	11.5/10	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	1750	EN ISO 12236
Dynamic cone drop (mm)	15	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	60	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 400

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX400-ENISO-0624

THIS PRODUCT

AWAZELTEX 400 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 400 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 400 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 400

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non-Woven
Geotextile Fabrics

REF: COMM-AWTEX400-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2kpa, (mm)	3.0	EN ISO 9863-1
Mass/unit area (gsm)	400	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	13.5/12	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	2000	EN ISO 12236
Dynamic cone drop (mm)	13	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	55	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 500

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX500-ENISO-0624

THIS PRODUCT

AWAZELTEX 500 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 500 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 500 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 500

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX500-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2kpa , (mm)	3.5	EN ISO 9863-1
Mass/unit area (gsm)	500	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	17/15	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	2700	EN ISO 12236
Dynamic cone drop (mm)	10	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	45	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 600

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX600-ENISO-0624

THIS PRODUCT

AWAZELTEX 600 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 600 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 600 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 600

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX600-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	4.3	EN ISO 9863-1
Mass/unit area (gsm)	600	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	18.5/16.5	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	3250	EN ISO 12236
Dynamic cone drop (mm)	8	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	37	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 800

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX800-ENISO-0624

THIS PRODUCT

AWAZELTEX 800 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 800 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 800 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 800

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX800-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	4.5	EN ISO 9863-1
Mass/unit area (gsm)	800	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	27/25	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	4300	EN ISO 12236
Dynamic cone drop (mm)	6	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	30	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 900

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX900-ENISO-0624

THIS PRODUCT

AWAZELTEX 900 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 900 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 900 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 900

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non-Woven
Geotextile Fabrics

REF: COMM-AWTEX900-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2kpa, (mm)	5.0	EN ISO 9863-1
Mass/unit area (gsm)	900	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	30/28	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	4600	EN ISO 12236
Dynamic cone drop (mm)	3	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	25	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 1000

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF:COMM-AWTEX1000-ENISO-0624

THIS PRODUCT

AWAZELTEX 1000 geotextile fabric is a high performance polymeric non-woven polyester stable fibre with a high degree of dimensional stability. It is used as a separation layer, filter fabric and moisture barrier in various construction and civil engineering applications.

USES & APPLICATIONS

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.
- Separation and protection layer in waterproofing applications.
- Filter fabric in waterproofing applications.
- Reinforcement and drainage functions in soil, rock and waste materials.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent resistance to chemical compounds and salts normally present in the soil
- Excellent UV resistance
- Durable and easy to install
- Remarkable resistance to aggressive attack of salts and chemicals.
- Good tear and puncture resistance

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 1000 can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 1000 should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 1000

High Performance, Needle-punched, Non-woven Geotextile Fabric

Non - Woven
Geotextile Fabrics

REF: COMM-AWTEX1000-ENISO-0624

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Thickness under 2Kpa , (mm)	6.0	EN ISO 9863-1
Mass/unit area (gsm)	1000	EN ISO 9864

MECHANICAL	NOMINAL VALUE	TEST METHOD
Tensile strength (kN/m), MD/XD	33/30	EN ISO 10319
Elongation (%)	50/60	EN ISO 10319
CBR puncture resistance (N)	5300	EN ISO 12236
Dynamic cone drop (mm)	0	EN ISO 13433

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	20	EN ISO 11058

DURABILITY	NOMINAL VALUE
Durability protection	To be covered within 15 days after installation
Resistance to weathering	Excellent UV resistance and retained strength of >50% on test of weathering resistance to EN 12224
Heat resistance	Melting point 260 °C
Chemical resistance	Excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and diesel.

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 120 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX120PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 120 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 120 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 120 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 120 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 120 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 120 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX120PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	1.3	ASTM D 5199
Mass/unit area (gsm)	120	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	450/450	ASTM D 4632
Elongation (%)	65/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	190/190	ASTM D 4533
Puncture strength (CBR) (N)	1400	ASTM D 6241
Index puncture strength (N)	300	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	100	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	100	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	2.0	ASTM D 4491
AOS (microns)	175	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

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AWAZELTEX 130 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX130PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 130 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 130 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 130 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 130 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 130 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 130 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX130PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	1.4	ASTM D 5199
Mass/unit area (gsm)	130	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	480/480	ASTM D 4632
Elongation (%)	65/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	200/200	ASTM D 4533
Puncture strength (CBR) (N)	1550	ASTM D 6241
Index puncture strength (N)	315	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	97	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	97	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.94	ASTM D 4491
AOS (microns)	160	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 140 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX140PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 140 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 140 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 140 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 140 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 140 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 140 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX140PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	1.5	ASTM D 5199
Mass/unit area (gsm)	140	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	520/520	ASTM D 4632
Elongation (%)	65/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	210/210	ASTM D 4533
Puncture strength (CBR) (N)	1700	ASTM D 6241
Index puncture strength (N)	330	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	95	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	95	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.9	ASTM D 4491
AOS (microns)	160	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 150 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX150PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 150 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 150 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 150 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 150 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 150 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 150 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX150PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	1.6	ASTM D 5199
Mass/unit area (gsm)	150	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	560/560	ASTM D 4632
Elongation (%)	65/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	225/225	ASTM D 4533
Puncture strength (CBR) (N)	1850	ASTM D 6241
Index puncture strength (N)	370	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	95	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	95	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.9	ASTM D 4491
AOS (microns)	140	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 180 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX180PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 180 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 180 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 180 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 180 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 180 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 180 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX180PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	1.8	ASTM D 5199
Mass/unit area (gsm)	180	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	725/725	ASTM D 4632
Elongation (%)	65/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	285/285	ASTM D 4533
Puncture strength (CBR) (N)	2200	ASTM D 6241
Index puncture strength (N)	470	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	90	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	90	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.8	ASTM D 4491
AOS (microns)	135	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 200 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX200PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 200 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 200 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 200 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 200 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 200 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 200 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX200PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	2.0	ASTM D 5199
Mass/unit area (gsm)	200	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	840/840	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	300/300	ASTM D 4533
Puncture strength (CBR) (N)	2500	ASTM D 6241
Index puncture strength (N)	500	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	80	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	80	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.6	ASTM D 4491
AOS (microns)	130	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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AWAZELTEX 230 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX230PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 230 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 230 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 230 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 230 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 230 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 230 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX230PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	2.2	ASTM D 5199
Mass/unit area (gsm)	230	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	960/960	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	375/375	ASTM D 4533
Puncture strength (CBR) (N)	2900	ASTM D 6241
Index puncture strength (N)	575	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	70	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	70	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.4	ASTM D 4491
AOS (microns)	105	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 250 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX250PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 250 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 250 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 250 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 250 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 250 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 250 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX250PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	2.3	ASTM D 5199
Mass/unit area (gsm)	250	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1050/1050	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	390/390	ASTM D 4533
Puncture strength (CBR) (N)	3200	ASTM D 6241
Index puncture strength (N)	650	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	65	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	65	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.3	ASTM D 4491
AOS (microns)	95	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 270 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX270PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 270 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 270 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 270 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 270 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 270 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 270 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX270PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	2.6	ASTM D 5199
Mass/unit area (gsm)	270	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1135/1135	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	405/405	ASTM D 4533
Puncture strength (CBR) (N)	3450	ASTM D 6241
Index puncture strength (N)	700	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	60	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	60	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.2	ASTM D 4491
AOS (microns)	95	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 280 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX280PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 280 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 280 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 280 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 280 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 280 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 280 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX280PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	2.6	ASTM D 5199
Mass/unit area (gsm)	280	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1175/1175	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	430/430	ASTM D 4533
Puncture strength (CBR) (N)	3600	ASTM D 6241
Index puncture strength (N)	750	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	60	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	60	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.2	ASTM D 4491
AOS (microns)	95	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 300 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX300PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 300 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 300 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 300 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 300 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 300 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 300 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX300PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	2.8	ASTM D 5199
Mass/unit area (gsm)	300	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1250/1250	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	460/460	ASTM D 4533
Puncture strength (CBR) (N)	3900	ASTM D 6241
Index puncture strength (N)	800	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	58	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	58	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.16	ASTM D 4491
AOS (microns)	85	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 350 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX350PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 350 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 350 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 350 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 350 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 350 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 350 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX350PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	3.0	ASTM D 5199
Mass/unit area (gsm)	350	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1450/1450	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	530/530	ASTM D 4533
Puncture strength (CBR) (N)	4650	ASTM D 6241
Index puncture strength (N)	900	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	55	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	55	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.1	ASTM D 4491
AOS (microns)	85	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 370 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX370PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 370 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 370 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 370 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 370 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 370 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 370 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX3570PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	3.2	ASTM D 5199
Mass/unit area (gsm)	370	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1500/1500	ASTM D 4632
Elongation (%)	70/75	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	575/575	ASTM D 4533
Puncture strength (CBR) (N)	4750	ASTM D 6241
Index puncture strength (N)	940	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	50	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	50	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	1.0	ASTM D 4491
AOS (microns)	85	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 400 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX400PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 400 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 400 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 400 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 400 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 400 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 400 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX400PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	3.45	ASTM D 5199
Mass/unit area (gsm)	400	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1650/1650	ASTM D 4632
Elongation (%)	70/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	590/590	ASTM D 4533
Puncture strength (CBR) (N)	5100	ASTM D 6241
Index puncture strength (N)	1000	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	47	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	47	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.94	ASTM D 4491
AOS (microns)	75	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 450 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX450PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 450 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 450 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 450 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 450 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 450 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 450 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX450PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	3.7	ASTM D 5199
Mass/unit area (gsm)	450	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	1825/1825	ASTM D 4632
Elongation (%)	70/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	675/675	ASTM D 4533
Puncture strength (CBR) (N)	5800	ASTM D 6241
Index puncture strength (N)	1075	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	45	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	45	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.9	ASTM D 4491
AOS (microns)	75	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 500 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX500PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 500 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 500 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 500 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 500 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 500 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 500 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX500PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	3.9	ASTM D 5199
Mass/unit area (gsm)	500	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	2075/2075	ASTM D 4632
Elongation (%)	70/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	750/750	ASTM D 4533
Puncture strength (CBR) (N)	6400	ASTM D 6241
Index puncture strength (N)	1250	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	40	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	40	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.8	ASTM D 4491
AOS (microns)	70	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 565 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF: COMM-AWTEX565PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 565 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 565 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 565 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 565 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 565 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 565 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX565PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	4.1	ASTM D 5199
Mass/unit area (gsm)	565	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	2300/2300	ASTM D 4632
Elongation (%)	70/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	825/825	ASTM D 4533
Puncture strength (CBR) (N)	7100	ASTM D 6241
Index puncture strength (N)	1275	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	37	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	37	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.74	ASTM D 4491
AOS (microns)	70	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 600 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX600PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 600 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 600 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 600 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 600 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 600 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 600 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX600PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	4.5	ASTM D 5199
Mass/unit area (gsm)	600	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	2450/2450	ASTM D 4632
Elongation (%)	70/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	875/875	ASTM D 4533
Puncture strength (CBR) (N)	7700	ASTM D 6241
Index puncture strength (N)	1350	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	34	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	34	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.68	ASTM D 4491
AOS (microns)	70	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 650 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX650PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 650 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 650 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 650 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 650 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 650 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 650 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX650PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	4.7	ASTM D 5199
Mass/unit area (gsm)	650	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	2650/2650	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	925/925	ASTM D 4533
Puncture strength (CBR) (N)	8150	ASTM D 6241
Index puncture strength (N)	1400	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	30	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	30	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.6	ASTM D 4491
AOS (microns)	65	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 700 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX700PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 700 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 700 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 700 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 700 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 700 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 700 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX700PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	5.0	ASTM D 5199
Mass/unit area (gsm)	700	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	2900/2900	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	1000/1000	ASTM D 4533
Puncture strength (CBR) (N)	8850	ASTM D 6241
Index puncture strength (N)	1600	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	28	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	28	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.56	ASTM D 4491
AOS (microns)	65	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 750 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX750PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 750 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 750 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 750 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 750 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 750 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 750 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX750PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	5.4	ASTM D 5199
Mass/unit area (gsm)	750	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	3025/3025	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	1050/1050	ASTM D 4533
Puncture strength (CBR) (N)	9600	ASTM D 6241
Index puncture strength (N)	1650	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	25	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	25	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.5	ASTM D 4491
AOS (microns)	65	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 800 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX800PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 800 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 800 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 800 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 800 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 800 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZELTEX 800 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX800PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	5.8	ASTM D 5199
Mass/unit area (gsm)	800	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	3300/3300	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	1150/1150	ASTM D 4533
Puncture strength (CBR) (N)	10200	ASTM D 6241
Index puncture strength (N)	1800	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	25	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	25	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.5	ASTM D 4491
AOS (microns)	65	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZELTEX 900 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX900PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 900 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 900 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 900 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 900 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 900 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 900 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX900PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	6.4	ASTM D 5199
Mass/unit area (gsm)	900	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	3600/3600	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	1300/1300	ASTM D 4533
Puncture strength (CBR) (N)	11250	ASTM D 6241
Index puncture strength (N)	1900	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	23	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	23	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.46	ASTM D 4491
AOS (microns)	60	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

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AWAZELTEX 1000 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX1000PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 1000 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 1000 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 1000 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 1000 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 1000 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 1000 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX1000PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	7.0	ASTM D 5199
Mass/unit area (gsm)	1000	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	3925/3925	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	1400/1400	ASTM D 4533
Puncture strength (CBR) (N)	12500	ASTM D 6241
Index puncture strength (N)	2000	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	21	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	21	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.42	ASTM D 4491
AOS (microns)	60	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

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AWAZELTEX 1100 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX1100PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 1100 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 1100 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 1100 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 1100 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 1100 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 1100 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX1100PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	7.4	ASTM D 5199
Mass/unit area (gsm)	1100	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	4300/4300	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	1700/1700	ASTM D 4533
Puncture strength (CBR) (N)	13500	ASTM D 6241
Index puncture strength (N)	2100	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	20	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	20	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.4	ASTM D 4491
AOS (microns)	60	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

NOTES: 1) Above values are nominal and are subject to internationally recognised standards' tolerance.

2) The above information is provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZELTEX 1200 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non - Woven Polypropylene Geotextile Fabrics

REF:COMM-AWTEX1200PP-ASTM-0124

THIS PRODUCT

AWAZELTEX 1200 PP is a line of high performance, polymeric non-woven stable-fiber geo-textile fabrics manufactured based on Polypropylene thermoplastic polymers with a high degree of dimensional stability. It is used as a separation, filtration, and moisture barrier in various civil engineering applications. AWAZELTEX 1200 PP is supplied in different weights and grammage per square meter to suit projects' requirements. The higher grammage of AWAZELTEX 1200 PP are ideal for soil stabilization in infrastructure works.

USES & APPLICATIONS

- Separation and protection layer in waterproofing applications
- Filter fabric in waterproofing applications
- Reinforcement and drainage functions in soil, rock and waste materials.
- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD roofing system.

SUPPLY & PACKAGING

- 2.9 m wide & 100 m long rolls
- 3.0 m wide & 100 m long rolls

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all time during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Durable
- Fatigue resistant
- Puncture resistant
- High tensile strength
- UV Stabilized

GENERAL INSTALLATION GUIDELINES

- AWAZELTEX 1200 PP can be loosely laid depending on the type of application and site conditions.
- Substrate should be clean and free from debris and large cavity.
- For roofing applications, AWAZELTEX 1200 PP should be applied over suitable substrate such as thermal insulation board or waterproofing membrane.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

STORAGE & HANDLING

- Store in a clean, dry environment and should be kept away from direct sunlight.



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TECHNICAL DATA SHEET

AWAZELTEX 1200 PP

High Performance, Needle-punched, Non-Woven Polypropylene Geotextile Fabric

Non-Woven
Polypropylene Geotextile Fabrics

REF: COMM-AWTEX1200PP-ASTM-0124

CHARACTERISTICS

PHYSICAL	NOMINAL VALUE	TEST METHOD
Polymer type	100% Virgin Polypropylene (PP)	—
Thickness under 2Kpa, (mm)	7.8	ASTM D 5199
Mass/unit area (gsm)	1200	ASTM D 5261

MECHANICAL	NOMINAL VALUE	TEST METHOD
Grab tensile strength (N), MD/XD	4750/4750	ASTM D 4632
Elongation (%)	75/80	ASTM D 4632
Trapezoidal tear strength (N), MD/XD	1900/1900	ASTM D 4533
Puncture strength (CBR) (N)	15000	ASTM D 6241
Index puncture strength (N)	2300	ASTM 4833

HYDRAULIC	NOMINAL VALUE	TEST METHOD
Permeability, m/sec $\times 10^{-3}$	20	ASTM D 4491
Flow water rate-5cm head (l/m ² /sec)	20	ASTM D 4491
Permativity @water tem. 20°C, s ⁻¹	0.4	ASTM D 4491
AOS (microns)	60	EN ISO 12956

DURABILITY	NOMINAL VALUE	TEST METHOD
UV protection	>70% Strength Retained after 50 MJ/m ² exposures	EN 12224
Oxidation resistance	Retained Strength >90% at (110±1) °C after 14 days exposure	EN ISO 13438
Chemical resistance	Excellent	EN 14030
Microbiological resistance	Excellent	EN 12225

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PRODUCT
TECHNICAL DATA SHEET

AWAZEL

**STRUCTURAL
GROUTS & MORTARS**

EPOXY GROUT
REPROFILING MORTAR



TABLE OF CONTENTS

AWAZEGROUT CM 100

Shrinkage-Compensated Profiling & Re-profiling Cementitious Mortar

Shrinkage-Compensated
Cementitious Grout

COMM-AGRTCM100-0721

THIS PRODUCT

AWAZEGROUT CM 100 is a single component, shrinkage-compensated, profiling and re-profiling restoration mortar composed of select cement, aggregates, and enhancing additives designed to provide a high strength mortar for structural repair works. AWAZEGROUT CM 100 is ideal for horizontal and vertical structural re-profiling works in below and above grade applications particularly for pile head re-profiling in foundation waterproofing.

USES & APPLICATIONS

- Pile head re-profiling
- General concrete restoration works

SUPPLY & PACKAGING

- 25 Kg. Bag

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation. For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Material should be kept in original packing in a properly ventilated shaded area.
- Keep away from any possible rain, moisture or water sources.

ADVANTAGES

- In situ application
- Shrinkage-compensated
- Flowable
- Ready-to- use
- High workability
- High strength
- VOC compliant

TYPICAL INSTALLATION PROCEDURES

- **PREPARATION:** Saturate the substrate with clean water 24 hours prior to commencing the re-profiling process.
- Drain out the water from the formwork and seal the outlets while leaving the substrate in a Saturated-Surface-Dry (SSD) condition before the placement of AWAZEGROUT CM 100 mix. Alternatively, the substrate could be hosed down with clean water to achieve an equal level of saturation.
- **MIXING:** After adding AWAZEGROUT CM 100 to 4.0 liters of clean water mix for 3 to 5 minutes- using a low-speed (< 500 rpm) manual mechanical mixer - until a smooth and a homogenous blend is attained.
- Seal around the formwork tightly using a sealing tape or other material prior to pouring AWAZEGROUT CM 100 to sustain water within the formwork and avoid loss of material.
- **POURING:** Immediately after mixing, pump or pour AWAZEGROUT CM 100 into the formwork starting from the lowest point. Do not pour from a high point to avoid air entrapment.
- **CURING:** Begin wet curing immediately after initial set using bonding agent coated over the material, or wet hessian covering the whole application or Polyethylene wrap tightened around the application.
- Leave formwork in place until the compressive strength has reached minimum 15 MPa (2200 psi).
- Ensure to allow adequate time for curing especially in hot weather condition.



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AWAZEGROUT CM 100

Shrinkage-Compensated Profiling & Re-profiling Cementitious Mortar

Shrinkage-Compensated
Cementitious Grout

COMM-AGR-TCM100-0721

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Flexural strength 3 days 7 days 28 days	> 2.5 N/mm ² > 6.0 N/mm ² > 9.0 N/mm ²	BS 4551
Compressive strength 7 days 28 days	> 48 N/mm ² > 60 N/mm ²	ASTM C 109
Tensile strength, 28 days	> 4.0 N/mm ²	ASTM C 307

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing.

Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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ATTRIBUTES

Supply form	Grey cementitious fine granules
Yield	12.5 L / 25 kg. Bag (4.0 L of water)



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AWAZEGROUT CM 100 H

Fast Setting Cementitious Bearing & Anchor Grout

Compliance: ASTM C 1107, Grade B

Cementitious Anchoring Grouts For Construction Works

REF: AZG-CMH100-DA-0123

THIS PRODUCT

AWAZEGROUT CM 100 H is a high early-strength, cementitious, non-metallic, non-shrink micro concrete grout made of Ordinary Portland Cement (OPC) mixed with fine aggregates and specific polymers designed for heavy-duty grouting, bedding, and bearing settings in the construction industry. AWAZEGROUT CM 100 H is an easy-to-use flowable form and void-filler which is pre-bagged and ready-to-use for in situ mixing and casting.

USES & APPLICATIONS

AWAZEGROUT CM 100 H is used in multiple applications that include setting of (but not limited to):

- Stanchion bases
- Generators
- Crain rails
- Precast elements
- Anchor bolts
- Flanged lighting column
- Milling machines
- Bridge bearing

SUPPLY & PACKAGING

- 25 Kg. Bags

STORAGE & HANDLING

- Store out of direct sunlight, clear of the ground on pallets, protect from rainfall.
- Avoid excessive compaction.
- Shelf life is 12 months when stored as above.

YIELD

- 12.5 liters / 25 kg bag at 3.5 liters water addition

FEATURES & ADVANTAGES

- High performance durability
- High early compressive strength
- Excellent flowability
- Excellent workability retention
- Superior bond strength to steel and concrete
- Low permeability
- Pourable and/or Pumpable

GENERAL INSTALLATION GUIDELINES

PREPARATION: The surface to be grouted with AWAZEGROUT CM 100 H should be clean, scrubbed and all contaminants such as grease, paint, oil, laitance.

- Any contamination should be removed by mechanical methods to generate a sound substrate.
- Area of application should be soaked and flooded with fresh water for 24 hours prior to grouting to minimize absorption and support the flowability of the grout.
- Surface should be in damp in an SSD condition (Saturated Surface Dry) and free from ponding water.
- Specific attention should be paid to inspecting bolts holes to ensure that these are free of any water accumulation.
- Base plate, bolts, and/or other members must be clean and free from contaminations that could impair adhesion.

MIXING:

- Using a slow speed powered mixer gradually add AWAZEGROUT CM 100 H to the mixer while stirring continuously for at least three to five minutes or until a uniform consistency is achieved.
- Ensure that the mixer is damp inside but free from standing water before commencing mixing.
- Mix AWAZEGROUT CM 100 H with 2.8 – 3.75 liters of fresh water per 25 kg bag to obtain the required consistency.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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AWAZEGROUT CM 100 H

Fast Setting Cementitious Bearing & Anchor Grout

Compliance: ASTM C 1107, Grade B

Cementitious Anchoring Grouts For Construction Works

REF: AZG-CMH100-DA-0123

APPLICATION:

- AWAZEGROUT CM 100 H should be placed within 15 minutes of mixing.
- AWAZEGROUT CM 100 H may be placed in thicknesses up to 100 mm in single layer.
- For thickness above 100 mm, AWAZEGROUT CM 100 H can be mixed with hard, clean, surface saturate dry (SSD) graded 10 mm aggregates in the ratio of 1:1 or 1:0.5 by weight depending on consistency required.
- For horizontal application, maintain a continuous pouring pattern. Formwork should be tamped gently.
- For vertical application such as boreholes, the grout should be poured/injected starting from the top and should continue until the borehole is full to the brim. The entrance should then be plugged. Keep the surfaces exposed to the atmosphere confined.

CURING:

- Immediately after placing AWAZEGROUT CM 100 H, cover all exposed grout with clean damp hessian and keep moist until grout is firm enough to accept a curing membrane to prevent loss of water which may result in cracking.

CHARACTERISTICS

PROPERTY	VALUE	TEST METHOD
Compressive Strength, N/mm ² 1 day 7 days 28 days	>40 >65 >80	ASTM C 109
Flexural Strength, 7 days, N/mm ²	>8.0	ASTM C 580
Tensile Strength, 7 days, N/mm ²	>5.0	ASTM C 307-18

NOTE: The above values are theoretical where tests are conducted at 23°C ± 2°C with w/p ratio of 0.14 (may vary in actual practice according to temperature and humidity levels)

APPLICATION ATTRIBUTES

ATTRIBUTE	RESULT
Mixed Density	1.97 ± 0.05 ton/m ³
Gap Thickness range	10 – 100 mm



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AWAZEGROUT EP 300

High Performance, Three-Part Encapsulation Epoxy Grout

High-Build Encapsulation Epoxy Grout

REF: AWZGRT-EP300-OCT21

THIS PRODUCT

AWAZEGROUT EP 300 is a three component, solvent free, high-build, high-strength epoxy resin system designed for the encapsulation of pile-head in sub-structure construction works. The product has an excellent bearing capacity to support the applied structural load. AWAZEGROUT EP 300 bonds tightly to the pile-head surface thus stops potential leakages that may occur due to capillary rise through the pile member. Due to its compatibility with most waterproofing material used for pile-head waterproofing AWAZEGROUT EP 300 plays a significant role in complementing the waterproofing assembly and protects it against possible damages that maybe incurred by the steel rebars. AWAZEGROUT EP 300 is supplied in a pre-measured ready-to-use packs with high flowability for ease of application.

USES & APPLICATIONS

- Pile-Head encapsulation
- Void filling in structural repairs
- Installation and anchoring of starter bars

SUPPLY & PACKAGING

- 3 Part (Base, Hardener & Aggregates)

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation. For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

- Material should be kept in original packing in a properly ventilated shaded area.
- Keep away from any possible rain, moisture or water sources.

ADVANTAGES

- Solvent-free
- High compressive strength
- High load-bearing ability
- High physical and mechanical properties
- High resistance to chemicals (acids & alkalis)
- Moisture tolerant
- Rapid hardening
- Impact, abrasion & vibration resistant

GENERAL INSTALLATION PROCEDURES

- **PREPARATION:** Ensure the substrate is clean and free from any contaminating elements.
- **MIXING:** Pour AWAZEGROUT EP 300 base (Part "A") into a clean container and mix using a slow-speed mechanical mixer (300 rpm) for 2 minutes.
- Add AWAZEGROUT EP 300 hardener (Part "B") and mix for another 3 minutes.
- Add AWAZEGROUT EP 300 aggregates (Part "C") slowly and continuously into the container and mix the 3 parts together until a uniform and homogeneous mix is attained.
- Seal around the formwork tightly using a sealing tape or other material prior to pouring AWAZEGROUT EP 300 to avoid loss of material.
- **POURING:** Immediately after mixing pour the mix into the formwork starting from the lowest point. Do not pour from a high point to avoid air entrapment.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZEGROUT EP 300

High Performance, Three-Part Encapsulation Epoxy Grout

High-Build
Encapsulation Epoxy Grout

REF: AWZGRT-EP300-OCT21

CHARACTERISTICS (Typical at 25 °C)

PROPERTY	TYPICAL VALUE	TEST METHOD
Flexural strength, 7 days	25 N/mm ²	BS 6319-3
Tensile strength, 7 days	15 N/mm ²	BS 6319-7
Bond strength, 7 days	> 2.5 N/mm ²	ASTM D4541
Compressive strength, 7 days	> 75 N/mm ²	BS 6319-2
Mixed Density	2.10 kg/ltr +/- 0.10	ASTM D1475
Water penetration	Nil	BS EN 12390-8

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

ATTRIBUTES

Supply form	THREE PART (PART A- Base), liquid (PART B- Hardener), liquid (PART C- Aggregates), fine granules
Yield	14 L
Application thickness	10- 75 mm in single application
Pot life	45 +/- 10 min.
Application temperature	+5°C to +40°C

COVERAGE

0.2 m²/ltr at 5 mm thickness



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AWAZECOAT EP 200 CTE

High Performance Coal-Tar Pitch Epoxy Coating

Compliance: ASTM D450

Coal-Tar Pitch
Epoxy Liners

REF: AWZCT-EP200CTE-0223

THIS PRODUCT

AWAZECOAT EP 200 CTE is a two-component high build, amine adduct cured Coal-Tar pitch epoxy coating which exhibits outstanding chemicals, water and crude oil resistance. AWAZECOAT EP 200 CTE is suitable for application in emersed conditions over blast steel and concrete substrates.

USES & APPLICATIONS

AWAZECOAT EP 200 CTE is ideal for internal and buried external lining of structures in the following applications:

- Pipelines
- Manholes
- Sewage tanks
- Floating and fixed roofs of crude oil tanks
- Many other similar industrial installations

SUPPLY & PACKAGING

- **20 Kg Kit:**
- **Base:** 16 Kg Pail (Part A)
- **Hardener:** 4 Kg Pail (Part B)

HEALTH & SAFETY

- All safety measures should be observed during installation.
- Wear suitable protective gloves and eye/face protection.
- Avoid contact with skin and eyes.
- Empty containers should be disposed of in accordance with waste disposal regulations.
- For further details refer MSDS.

FEATURES & ADVANTAGES

- High performance durability
- High resistance to most chemicals
- High waterproofing properties
- Excellent flowability
- Excellent workability retention
- Superior bond strength to steel and concrete
- Low permeability
- Sprayable (Airless spray, nozzle orifice 0.021-0.025", pressure 150 bar)

TYPICAL INSTALLATION PROCEDURES

PREPARATION: Surface preparation is essential to realize optimum finish and durability:

- The surface must be clean, dry and sound, free of any contamination and/or protrusions that may negatively affect the adhesion of AWAZECOAT EP 200 CTE
- Concrete substrates must be properly ground to remove laitance and create a strong bond between AWAZECOAT EP 200 CTE and the substrate.
- Cracks above 3 mm must be repaired using AWAZECOAT EP 200 CTE installed in 2 coats over the crack and reinforced with AWAZEL FABRIC sandwiched between the 2 coats.
- Maximum moisture content should not exceed 5%
- Substrate's compressive strength should be at least 25 MPa.
- Fresh concrete structures should be cure for minimum 28 days.

MIXING:

- Add PART B (hardener) to PART A (base) 1:4 by weight.
- Stir well before application, using a slow-speed drill mixer for at least 3 minutes.

PRIMING COAT (if required for submerged conditions)

- AWAZECOAT EP 200 CTE maybe diluted with 20% - 30% thinner to achieve a workable priming coat prior to the application of the main mix.



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TECHNICAL DATA SHEET

AWAZECOAT EP 200 CTE

High Performance Coal-Tar Pitch Epoxy Coating

Compliance: ASTM D450

Coal-Tar Pitch
Epoxy Liners

REF: AWZCT-EP200CTE-0223

APPLICATION:

- Apply the first coat using roller or spray equipment and spread out at the recommended coverage rate of 8 m²/Kg/ coat using a roller or brush until the entire area is covered.
- Airless spray equipment is a good solution for large span areas (nozzle orifice 0.021-0.025", pressure 150 bar)
- Allow first coat to cure for 4 hrs then apply the second coat following the same method of applying the first coat at the same recommended coverage rate.
- Allow to cure for 24 hrs
- If required a 3 coat maybe applied
- Steel substrates must be degreased by a suitable cleaning solvent and blast cleaned to SA 2 ½, SSPC-SP10 or similar to remove rust and mill scale.
- Weld splatter, sharp edges, and similar defects should be removed by grinding prior to blast cleaning. Blast profile must conform to agreed standards.

STORAGE & HANDLING

- Shelf life of 12 months in original unopened containers.
- Store in dry conditions in enclosed warehouse at temperatures not exceeding 25 °C.

CHARACTERISTICS

AWAZECOAT EP 200 CTE complies with ASTM D450 TYPEII

PROPERTY	TYPICAL VALUE
Water Content, %	0.05 % max.
Specific gravity 25/25 °C	1.25 ± 0.05
Softening point (ring & ball), °C	106
Flash point, °C	175
Total pitch soluble in carbon desulfide, %	72
Ash, max, %	0.50

NOTE: The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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AWAZECOAT EP 200 CTE

High Performance Coal-Tar Pitch Epoxy Coating

Compliance: ASTM D450

Coal-Tar Pitch
Epoxy Liners

REF: AWZCT-EP200CTE-0223

ATTRIBUTES

PROPERTY	TYPICAL VALUE
Mixing ratio by volume (base to hardener)	4 : 1
Volume solids	Approx. 80 %
Recommended DFT thickness	100 microns
Spreading rate (theoretical)	8 square meters/liter @ 100 microns DFT.
Minimum recoating time	24 hours at 25°C
Maximum recoating time	max. 5 days at 25°C
Drying time	Surface dry: 2-4 hours at 25 °C at 100 micron DFT Through dry: 24 hours at 25 °C at 100 micron DFT
Thinner / Cleaning Solvent	Epoxy Thinner
Pot life	Approx. 6 hours by 25 °C. Shorter at higher temperature.
Shelf life	Cool and dry. Minimum one year in unopened containers.



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

JOINT TREATMENT AUXILIARY PRODUCTS

JOINT FILLER BOARD
BACKER RODS
WATER STOPS
SEALANTS
REINJECTABLE HOSE



TABLE OF CONTENTS

AWAZEL FIBERBOARD FB

Bitumen Impregnated Expansion Joint Filler Board

Bitumen Impregnated
Joint Filler Boards

REF: AFFBRD-LINE-922

THIS PRODUCT

AWAZEL FIBERBOARD FB is a line of bitumen impregnated fiber joint filler boards made of recycled sugar cane fibers. Cane fibers are longer and provide more superior expansion and contraction capabilities in joint filler boards while impregnation in asphalt extends resilience and durability to the boards to serve the purpose they are designed for. AWAZEL FIBERBOARD FB exhibits excellent compression capabilities and a loss of less than 0.1 to 0.2 % by weight when subjected to a load between 689 to 5171 kPa (100 to 750 PSi). On the other hand, AWAZEL FIBERBOARD FB recovers 80–85 % of its original thickness within 10 minutes of removing the load even when compressed to 50% of its original thickness.

USES & APPLICATIONS

AWAZEL FIBERBOARD FB is used as an expansion joint filler board within concrete structures in:

- Roofs
- Floors
- Basements
- Airports driveways & aprons
- Runways
- Roads
- Bridges
- Tunnels
- Pavements
- Curbs
- Piers

SUPPLY & PACKAGING

- 2.2 m x 1.22 m (10 mm, 12 mm, 18 mm & 25 mm)
- 2.44 m x 1.22 m (10 mm, 12 mm, 18 mm & 25 mm)

HEALTH & SAFETY

- AWAZEL FIBERBOARD FB is not a hazardous material
- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.

FEATURES & ADVANTAGES

- Excellent concrete bonding
- Low moisture absorption
- Durable and easy to handle
- Excellent load bearing capabilities
- Accommodates to temperature fluctuation
- Excellent Recovery pursuant to compression
- Eliminates concrete cracking
- Excellent Extrusion on free edge and 1 – 2 mm on restrained edges (50% compression)

TYPICAL INSTALLATION GUIDELINES

- AWAZEL FIBERBOARD FB is pushed inside the expansion joint between two concrete slabs filling the joint with an allowance of $\frac{3}{4}$ of an inch (approx. 19 mm) below the surface of the concrete slab
- A Polyethylene backer rod is placed (25% Ø larger than the joint width) as a bond breaker
- Depending on the location of the joint, a suitable sealant (Bitumen, Polyurethane or Polysulphide) is tooled to fill the balance height of the joint to level with the surface of the slab
- A dowel bar maybe used to preserve alignment of the adjacent sections of concrete slab
- AWAZEL FIBERBOARD FB is installed along with the steel grid work.
- After this process is complete the concrete is poured into the grid work

SHELF LIFE

- 12 from production date and when stored as stated herein

STORAGE & HANDLING

- Should be kept flat in original packing in a shaded area
- Normally the pallets can be stacked over one another



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TECHNICAL DATA SHEET

AWAZEL FIBERBOARD FB

Bitumen Impregnated Expansion Joint Filler Board

Bitumen Impregnated
Joint Filler Boards

REF: AFFBRD-LINE-922

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Compression: a. Stress applied for compressing specimen to 50% of its thickness, % b. Loss in Weight after application of stress, %	1800-2000 KPa 0.1- 0.2	ASTM D 545-08
Extrusion after compressing to 50% of the specimens thickness, mm	0.5 - 1.0	ASTM D 545-08
Recovery, 10 minutes after compressing to 50% of the specimens' thickness, %	82 - 85	ASTM D 545
Density, kg/m ³	300 - 330	ASTM D 545
Water Absorption, %	50	ASTM D 545
Asphalt Content, %	20 - 23	ASTM D 545

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances. AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

ATTRIBUTES

PROPERTY	AWAZEPLY PVC HYDRO
Thickness, mm	10 mm, 12 mm, 18 mm & 25 mm
Width, m	1.22 m
Height	2.20 m, 2.44 m



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AWAZEJOINT PE BOARD

Compressible, Cross-Linked Polyethylene Joint Filler Board

Compliance: ASTM D 1751, ASTM D 1752, ASTM D 545, ASTM D3575, BS 5628 Part III

Cross-Linked, Semi-Rigid
Polyethylene Joint Filler Board

REF: COMM-AJPE-MJ-0423

THIS PRODUCT

AWAZEJOINT PE BOARD is a non-absorbent, cross linked, closed-cell structure polyethylene joint filler board with improved properties of UV resistance, compressibility, and negligible water absorption. AWAZEJOINT PE BOARD is ideal in filling expansion joints in the construction industry especially in near-sea applications. Due to its density, AWAZEJOINT PE BOARD has excellent shock and vibration absorbance qualities that enables it to be used in areas where high impact resistance is required while due to its efficiency and light weight structure AWAZEJOINT PE BOARD could be used in cushioning and dunning in the packing and marine industries.

USES & APPLICATIONS

Filler for high movement expansion joints in:

- Water retaining structures
- Water features
- Potable water tanks (WRAS BS6920)
- Brick work and block work
- Subway structures
- Base slabs
- Deck slabs
- Combo Roof system screed
- Culverts
- Sewage tanks and manholes
- Highway and bridge work masonry

STORAGE & HANDLING

- Material should be kept in original packing in a properly ventilated shaded area.
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Semi-rigid
- Rot-proof
- Non-extruding
- Resistant to bacteriological attack
- Outstanding resistance to water and vapour
- Outstanding movement accommodation
- UV resistant
- High resistance to solvents, oil, acids and alkalis
- Excellent load bearing and load distribution
- Excellent root barrier
- Excellent shock and vibration absorbance
- Excellent dimension recovery after compression

GENERAL INSTALLATION GUIDELINES

- Joints must be cleaned by air-blowing and made free of any debris, foreign particles or protrusions while paying attention to ensure that AWAZEJOINT PE BOARD is held tightly onto the concrete surface and to avoid damage or bending of AWAZEJOINT PE BOARD during the placement process.
- AWAZEJOINT PE BOARD maybe cut to approved width and placed inside the joint groove to flush with the substrate surface allowing 25 mm – 30 mm (depending on joint width, projected movement and design) for placing backing rod and sealant (recommended sealant AWAZEL PU FLEX or AWAZEAL POLYSULPHIDE SEALANT)
- AWAZEJOINT PE BOARD maybe mechanically fastened to substrate by stainless steel nails with 50 mm washer prior to casting concrete.
- Upon de-shuttering the surface shall be cleaned of all remnants, concrete and or cement particles, made dry and free from any contamination.

SUPPLY & PACKAGING

- Size: 2.0m X 1.0m
- Thickness: 6, 10, 12, 15, 20, 25, 30 and 50mm



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AWAZEJOINT PE BOARD

Compressible, Cross-Linked Polyethylene Joint Filler Board

Compliance: ASTM D 1751, ASTM D 1752, ASTM D 545, ASTM D3575, BS 5628 Part III

Cross-Linked, Semi-Rigid
Polyethylene Joint Filler Board

REF: COMM-AJPE-MJ-0423

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Compressive Strength, N/mm ²	0.15
Water absorption, %	Less than 0.05
Density, kg/m ³	40, 60, 100 (±5)
Recovery	>98% after 50% compression
Extrusion, mm	<0.2
Weathering test	No disintegration
Resistant to bacteriological attack	Excellent
Compression loading	Meets with requirements of BS 5628 Part III

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

ATTRIBUTE

Form	Semi rigid cross-linked closed cell structure
Color	Grayish- black & white



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AWAZEJOINT BR 1000

Joint Sealant Backing Material

Joint Sealant
Complementary Products

REF: AJBR-REG-0422

THIS PRODUCT

AWAZEJOINT BR 1000 is a prefabricated closed-cell-structure Polyethylene foam rods designed in a cylindrical shape used in the construction industry as a bond-breaker and support for joint fillers and sealants. The main role of AWAZEJOINT BR 1000 is to control the depth under sealants in joints thus avoiding excessive material installation while eliminating triple-bonding and accommodating joint movement. AWAZEJOINT BR 1000 is compatible with almost all cold-applied types of sealants and supplied in a variety of diameters to suit different joint widths and applications

USES

Filling joints, cracks and gaps between building material in:

- Tiling
- Window paneling
- Flooring
- Construction joints
- Expansion joints
- Detailing around substrate penetrations

FEATURES & ADVANTAGES

- Closed-Cell-Structure
- Simple and easy application
- High compressive ability
- Flexible and durable to accommodate consistent joint movement
- Resistant to water
- Resistant to vapour
- Resistant to oils and solvents
- Excellent Bond-breaker

TYPICAL INSTALLATION PROCEDURES

- Selecting the size and diameter of AWAZEJOINT BR 1000 depends on the width of the joint. The diameter should be larger than the width of the joint by 15% - 30% (25% on average).
- Joints should be properly cleaned by brush and air-blowing prior to the installation of AWAZEJOINT BR 1000 and the sealant. All contaminants must be removed.
- Insert AWAZEJOINT BR 1000 into the joint while pushing with a soft end tool to avoid damage and/or cracking.

SUPPLY PACKAGING

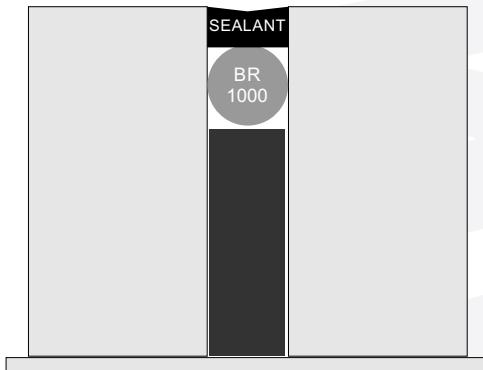
- See table overleaf

SHELF LIFE

- 12 months from production date when stored under recommended conditions.

STORAGE & HANDLING

- Material should be stored in a properly ventilated areas
- Preferably in shaded, low-moisture covered locations . protected against ice, high temperature and exposure to direct sunlight.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment , Health & Safety

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AWAZEJOINT BR 1000

Joint Sealant Backing Material

Joint Sealant
Complementary Products

REF: AJBR-REG-0422

CHARACTERISTICS

PROPERTY	TYPICAL RESULTS
Stress @ 25 °C (ASTM D 3574)	108 Kg / cm
Density (ASTM D 3574)	36 kg/m ³
Chemical resistance (ASTM D 1752)	Pass

NOTES:

(1) Above values are subject to internationally recognized standards tolerance.
 (2) The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
 (3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

SUPPLY & PRESENTATION

ATTRIBUTE	RESULT
Supply form	Cyliderical rods
Colours	Grey, White
Dia. mm	10 15 20 25 30 40 50
Length,m	300 100 50 50 50 2 2



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AWAZEJOINT TPE WATERSTOP

Thermoplastic Vulcanizate Waterstop, Compatible with Bitumen Membranes

Weldable TPE/TPV/TPER
Expansion & Construction
Joint Waterstop

REF: COMM-ATPEWS-0923

THIS PRODUCT

AWAZEJOINT TPE WATERSTOP is an extruded, durable, chemical resistant fully vulcanized blend of EPDM & Polypropylene designed to serve the purpose of stopping water through expansion or construction joints in concrete structures. AWAZEJOINT TPE WATERSTOP is highly resistant to aggressive chemicals and a wide range of oils and solvents. When embedded in concrete, across and along the joint, for primary and secondary containment structures, it acts as a fluid-tight diaphragm thus protects structures against potential leakages. Due to its chemical composition, AWAZEJOINT TPE WATERSTOP is weldable and compatible with bituminous membranes. It is ideal when used as an external waterstop where it could be welded directly onto bituminous membranes. Suitable to meet design and application requirements in refineries, primary and secondary containment, mining fields, fuelling warehouses, chemical plants and acid storage facilities.

USES & APPLICATIONS

Internal and external waterstop in below-grade and above-grade applications for:

- Construction joints
- Expansion joints

SUPPLY & PACKAGING

Multiple profiles, please see overleaf.

STORAGE & HANDLING

- Store the material in a cool, dry and shaded area, protect from UV and high temperatures.
- Prolonged exposure to sunlight and harsh environment may result in deterioration of the product.
- Keep away from sharp edges to prevent damage. Shelf life 12 months from date of production if stored properly in undamaged and unopened original sealed packaging.

FEATURES & ADVANTAGES

- Weldable (hot-air gun or torch)
- Superior long-term resistance to chemicals
- Accommodates joint movement
- Excellent recovery of physical properties at elevated temperatures
- Excellent mechanical bonding
- Environment friendly
(does not contain any plasticisers or fillers)
- Excellent ozone and weathering resistance

GENERAL INSTALLATION GUIDELINES

- Centre AWAZEJOINT TPE WATERSTOP at the joint and run it to the full extent of the joint.
- Allow a minimum two times the largest aggregate size clearance between AWAZEJOINT TPE WATERSTOP and the reinforcing rebars
- For multidirectional joints, please contact AWAZEL for a pre-fabrication of waterstop according to design mandates.
- For expansion joint applications, do not embed centre bulb to allow for movement accommodation
- Hold waterstop securely prior to concrete pour. Secure in correct position at 300 mm maximum centres with tie wires to the adjacent reinforcing steel rebar.
- For vertical applications suitable profiles of AWAZEJOINT TPE WATERSTOP, which could be nailed through outer flanges directly onto formwork.
- For external applications, AWAZEJOINT TPE WATERSTOP maybe welded (torched) directly onto bituminous waterproofing membranes.



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AWAZEJOINT TPE WATERSTOP

Thermoplastic Vulcanizate Waterstop, Compatible with Bitumen Membranes

Weldable TPE/TPV/TPER
Expansion & Construction
Joint Waterstop

REF: COMM-ATPEWS-0929

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Specific Gravity	1.20 ± 0.02	—
Hardness (shore A)	65 ± 5 °A	ASTM D 2240
Tensile Strength, (N/mm ²)	>7	ASTM D 638
Elongation at break, %	400	ASTM D 638
Water Absorption	Negligible	—
Chemical Resistance	Resistant to solutions of inorganic acids, alkalis and salts.	ASTM D 471
Brittleness Temperature (°F)	-70	ASTM D 746
Thermal Stability at 200 °C	>40 minutes	—
Water Potability	Suitable for use with potable water sources	BS 6920

NOTES:

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HEALTH & SAFETY

- All safety measures should be observed during installation.
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.

SHELF LIFE

- 12 from production date and when stored as stated herein



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AWAZEJOINT TPE WATERSTOP

Thermoplastic Vulcanizate Waterstop, Compatible with Bitumen Membranes

REF: COMM-ATPEWS-0923

PROFILES & DIMESNIONS

USE	PROFILE	PRODUCT NAME	WIDTH (MM)	LENGTH (MM)	MIN. THICKNESS (±10%) (MM)
INTERNAL	CONSTRUCTION JOINTS	TPE IC-150	15	15	4.0
		TPE IC-200	20	15	6.0
		TPE IC-250	25	12	5.0
		TPE IC-330	33	12	4.0
EXTERNAL	EXPANSION JOINTS	TPE IE-150	15	15	4.0
		TPE IE-200	20	15	6.0
		TPE IE-250	25	12	5.0
		TPE IE-330	33	12	4.0
CONSTRUCTION JOINTS	CONSTRUCTION JOINTS	TPE EC-150	15	15	4.0
		TPE EC-200	20	15	4.0
		TPE EC-250	25	12	4.0
		TPE EC-330	33	12	4.0
EXPANSION JOINTS	EXPANSION JOINTS	TPE EE-150	15	15	4.0
		TPE EE-200	20	15	4.0
		TPE EE-250	25	12	4.0
		TPE EE-330	33	12	4.0



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AWAZEL PVC WATERSTOP-L

Durable PVC Waterstop Profiles for Expansion & Construction Joints

PVC Waterstop Profiles For Expansion & Construction Joints

REF: APVCWS-LINE-922

THIS PRODUCT

AWAZEL PVC WATERSTOP-L is a line of multiple width and thickness of PVC waterstop profiles extruded from a high grade of Polyvinyl Chloride (PVC) used in below-grade, water retaining structures and buried structures to prevent dampness, moisture, and water leakage under pressure without deformation subject to hydrostatic pressure in both construction and expansion joints.

USES & APPLICATIONS

Used for stopping water in the following applications:

- Water reservoirs
- Water towers
- Dams
- Canals
- Swimming pools
- Sewage tanks
- Basements
- Underground car parks
- Tunnels
- Subways
- Retaining walls

SUPPLY & PACKAGING

- Various widths & thickness (see table overleaf)

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.

FEATURES & ADVANTAGES

- High quality PVC for long durability
- Resistant to high water pressure
- Easy to weld on site
- Reinforced with eyeleted-edge flanges for stable fixing
- Good chemical resistance
- Can be used in hot and cold climates
- Suitable for potable water usage
- Diverse size & thickness to suit design considerations

TYPICAL INSTALLATION GUIDELINES

Internal Placement

Place AWAZEL PVC WATERSTOP-L centered within the joint prior to casting concrete or positioned as specified.

External Placement

Place AWAZEL PVC WATERSTOP-L on the concrete substrate or formwork centered to the joint location

Welding

- AWAZEL PVC WATERSTOP-L are made from thermoplastic PVC, and can therefore be heat-welded easily.
- The ends must be secured and aligned into a welding jig and cut precisely.
- Edges shall be cut straight and heated with suitable welding knife until an adequate bead of PVC flows while the ends are pressed firmly and instantaneously together.

SHELF LIFE

- 12 from production date and when stored as stated herein

STORAGE & HANDLING

- Store the material in a cool, dry and shaded area, protect from UV and high temperatures.
- Prolonged exposure to sunlight and harsh environment may result in deterioration of the product.
- Keep away from sharp edges to prevent damage. Shelf life 12 months from date of production if stored properly in undamaged and unopened original sealed packaging.



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AWAZEL PVC WATERSTOP-L

Durable PVC Waterstop Profiles for Expansion & Construction Joints

PVC Waterstop Profiles For Expansion & Construction Joints

REF: APVCWS-LINE-922

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile Strength , N/mm ²	>14	BS 2782 Part 3 – 1976, Method 320 A
Elongation at break, %	>300	BS 2782 Part 3 – 1976, Method 320 A
Shore A hardness	80 ± 2	ASTM D 2240
Stabilization	Lead Free	–
Water Absorption, %	0.06	ASTM D 570
Specific Gravity	~1.37	ASTM D 792

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USAGE & DIMENSIONS

USE	PROFILE	PRODUCT NAME	WIDTH cm	LENGTH lm	Min. Thickness (±10%) mm
INTERNAL CONSTRUCTION JOINTS		IC-150-L	15	15	4.0
		IC-200-L	20	15	6.0
		IC-250-L	25	12	5.0
		IC-330-L	33	12	4.0
INTERNAL EXPANSION JOINTS		IE-150-L	15	15	4.0
		IE-200-L	20	15	6.0
		IE-250-L	25	12	5.0
		IE-330-L	33	12	4.0
EXTERNAL CONSTRUCTION JOINTS		EC-150-L	15	15	4.0
		EC-200-L	20	15	4.0
		EC-250-L	25	12	4.0
		EC-330-L	33	12	4.0
EXTERNAL EXPANSION JOINTS		EE-150-L	15	15	4.0
		EE-200-L	20	15	4.0
		EE-250-L	25	12	4.0
		EE-330-L	33	12	4.0



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AWAZEJOINT HP WATERBAR

Hydrophilic, Swellable, Butyl Water Bar

Hydrophilic Joint-Sealing
Waterstops

REF: COM-AJNT-HPWB-0323

THIS PRODUCT

AWAZEJOINT HP WATERBAR is a swellable, hydrophilic joint sealing system used for sealing joints subjected to frequent or occasional water aggression. When attacked by water AWAZEJOINT HP WATERBAR swells in volume between 150% up to 400% depending on the nature of water whether potable or sea water. AWAZEJOINT HP WATERBAR is manufactured through an extrusion manufacturing process of butyl rubber that generates profiled water bars in different dimensions suitable for use with concrete structures or steel structures or other substrates subject to compatibility of application.

USES & APPLICATIONS

AWAZEJOINT HP WATERBAR is suitable for sealing joints in the following applications:

- Poured-in-place concrete construction joints in basements, water tanks, water features and other similar applications.
- Precast concrete segments
- Steelworks
- Around pipe penetrations and mechanical fixtures
- Around drains outlets in roofing, planter boxes and landscaping applications

SUPPLY & PACKAGING

Multiple profiles, please see overleaf.

STORAGE & HANDLING

- Protect the material against moisture and direct sunlight.
- Store in controlled temperature between (5°C) – (60°C).
- Products should be properly stored in their original, unopened packaging.

FEATURES & ADVANTAGES

- Effortless and simple application
- Excellent swelling properties
- Excellent elasticity
- Permanent water resistance
- Eco-friendly
- Cost effective

GENERAL INSTALLATION GUIDELINES

- Joint surfaces must be to be clean, dry and sound, free of any protrusions or contaminants that may affect the adhesion.
- Any loose particles, debris must be removed prior to the application of AWAZEJOINT HP WATERBAR
- Surface irregularities must be carefully flattened.
- Old coatings, dirt, fats, oils, organic substances, and dust must be removed by a grinding machine.
- Apply AWAZEL PU FLEX sealant along the center of the joint to the width of the specified joint.
- Embed and press AWAZEJOINT HP WATERBAR over the sealant bed while still tacky.

SHELF LIFE

- 3 Years from production date when stored in proper storage conditions

HEALTH & SAFETY

- AWAZEJOINT HP WATERBAR is Eco-friendly.
- Standard safety precautions and measures as dictated by site safety team shall be considered.



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AWAZEJOINT HP WATERBAR

Hydrophilic, Swellable, Butyl Water Bar

Hydrophilic Joint-Sealing
Waterstops

REF: COM-AJNT-HPWB-0323

CHARACTERISTICS

PROPERTY	TYPICAL VALUE
Density, g/cm ³	1.20
Hardness (shore A)	40 - 50
Service temperature range	-30°C to 60°C
Swelling rate, % :	
Pure water	400
Tap water	250
Sea water	150

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

PROFILE DATA

PRODUCT NAME	WIDTH (MM)	THICKNESS (MM)
AWAZEJOINT HP WATERBAR 1010	10	10
AWAZEJOINT HP WATERBAR 2005	20	05
AWAZEJOINT HP WATERBAR 2010	20	10
AWAZEJOINT HP WATERBAR 2020	20	20
AWAZEJOINT HP WATERBAR 2030	20	30
AWAZEJOINT HP WATERBAR 2040	20	40
AWAZEJOINT HP WATERBAR 3005	30	05
AWAZEJOINT HP WATERBAR 3010	30	10
AWAZEJOINT HP WATERBAR 3020	30	20
AWAZEJOINT HP WATERBAR 3030	30	30



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL MASTIC"

AWAZEJOINT RB MASTIC

Cold-Applied, Highly Rubberized Bitumen Mastic Sealant

High-Performance
Joint Sealants

REF: MNFG-AJRBMSTC-062023

THIS PRODUCT

AWAZEJOINT RB MASTIC is a single-component, highly rubberized, slump free ready-to-use bitumen mastic & joint sealant, with excellent adhesion to concrete, asphalt, and most construction substrates. AWAZEJOINT RB MASTIC manufactured from a select blend of elastomeric rubber, fibers mineral fillers used for sealing movement joints, cracks, and pinholes in concrete. Once cured AWAZEJOINT RB MASTIC forms a black, elastic sealant with excellent adhesion to the substrate.

USES & APPLICATIONS

AWAZEJOINT RB MASTIC is suitable for sealing in the following applications:

- Concrete movement joints
- Cracks
- Asphalt cracks
- Pavements cracks
- Termination of waterproofing membranes systems
- Detailing around concrete substrate penetrations

SUPPLY & PACKAGING

- 5 Kg tins
- 10 Kg tins
- 20 L pails

HEALTH & SAFETY

- AWAZEJOINT RB MASTIC is bitumen based and there is risk of cauterization in the event of contact with the eyes which may lead to dehydration and irritation in case of contact with skin.
- Application team must wear safety goggles and protective gloves.
- Splashes on the skin must be immediately washed off by water and detergents.
- Splashes to the eyes must be rinsed with clean and warm water.
- Seeking medical attention is highly recommended and mandatory.

FEATURES & ADVANTAGES

- Easy application and tooling
- Highly Flexible
- Slump resistant
- Strong adhesion
- Stable at high ambient temperature
- Asbestos Free
- High movement accommodation factor
- No Sagging

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: Surfaces should be clean, dry and free from loose debris, dirt and grease.
- Cracks must be rebated 2" x 2" and cleaned by air blowing prior to application. For joints, joint depth should not exceed joint width. Ideally the width should be twice the depth. Depth of the joint could be controlled by AWAZEJOINT BR 1000 (Polyethylene backer rod) where the backer rod's diameter should be 25% wider than the joint.
- Maximum width recommend should not exceed 20 mm.
- Depending on substrate condition, a coat of AWAZEL PRIMER D41 maybe be required to prepare the substrate prior to the tooling of AWAZEJOINT RB MASTIC.
- Voids and honeycombs must be repaired on before applying the primer.
- Mixing: Stir the AWAZEJOINT RB MASTIC thoroughly for a minimum of 2-3 minutes with a slow-speed paddle mixer prior to application use.
- AWAZEJOINT RB MASTIC is a paste they could be applied by trowel, putty knife, scraper, or caulking gun.
- If a good finish of joint is required, use masking tape prior to priming to cover the edges. Remove the tape immediately after applying the sealant.
- Apply AWAZEJOINT RB MASTIC into the joint firmly to ensure complete contact with the joint sides.
- Tools may be cleaned by using white spirit.
- Apply AWAZEJOINT RB MASTIC on the vertical joints, from bottom to top.
- AWAZEJOINT RB MASTIC may also be tooled by spatula knife for smoothening and neat finishing.



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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL MASTIC"

AWAZEJOINT RB MASTIC

Cold-Applied, Highly Rubberized Bitumen Mastic Sealant

High-Performance
Joint Sealants

REF: MNFG-AJRBMSTC-062023

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Cone Penetration, 150 g. 5 sec at 25 °C 0.1mm (residue) evaporation	< 235	ASTM D 5 & D 217
Flow at 60°C, mm	< 5	ASTM D 1851
Bond	Adequate	ASTM D 1851
Drying time to touch, hours	4 - 6	MRDD-13(97)
Adhesion to surface	Excellent	ASTM D 3409

ATTRIBUTES

PROPERTY	TYPICAL VALUE
Solids by volume, %	>60
Density, g/cm³	1.0 - 1.1
Pot Life	40-60 min @35 °C
Setting Time	24 hours depending on weather conditions
Full Cure	14 days (12mm)
Service Temperature	0°C to 85°C
Movement Accomodation Factor , %	10% butt joint 20 % lap joints
Chemical resistance (occasional spillages) Diluted acids Diluted alkalines Chloride	Resistant Resistant Resistant

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COVERAGE (THEORETICAL)

Approximate rate:- Joint Size (WxD) MM	Liter / Linear Meter	Linear Meter per 20ltr pack
10 x 15	0.15	133.00
10 x 20	0.20	100.00
15 x 15	0.23	86.90
15 x 20	0.30	66.67
20 x 20	0.40	50.00

NOTE: Actual coverage depends on joints dimension

STORAGE & SHELF LIFE

- Shelf life of 12 months in original unopened containers.
- Store in clean, dry, shaded and ventilated areas at a temperature between 5°C – 35 °C away from direct sunlight.



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AWAZEL POLYSULPHIDE SEALANT

Multicomponent Gun and Pouring Grade Polysulphide Sealant

Self-Levelling

Polysulphide Sealant

REF: AWPS - 0223

THIS PRODUCT

AWAZEL POLYSULPHIDE SEALANT is a self-leveling, multi-component pouring grade joint sealant, based on liquid polysulphide polymer recommended for sealing expansion and construction joints (stress relieving joints) in floors or other horizontal surfaces.

USES & APPLICATIONS

AWAZEL POLYSULPHIDE SEALANT is a high-quality general purpose Civil engineering joint sealant particularly suitable for:

- Movement joints of mid / high rise towers
- Industrial floors
- Car parks
- Reservoirs & water retaining structures
- Subways
- Flashing joint filler in waterproofing systems where ponding water is expected
- Airport aprons joint sealing

SUPPLY & PACKAGING

- 4 Liters (Other weights are available upon request)

HEALTH & SAFETY

- Wear suitable protective gloves and eye/face protection.
- Avoid contact with skin and eyes.
- In case of contact with skin, wash immediately with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. Hands should be thoroughly washed with soap and water before eating or drinking.
- Cured sealant should not be burned off due to generation of toxic fumes.
- Keep away from children, extremely dangerous if swallowed.
- Empty containers should be disposed of in accordance with waste disposal regulations.
- For further details refer MSDS.

FEATURES & ADVANTAGES

- Designed to form a tough rubber like seal
- Capable of accommodating continuous and pronounced cyclic movement (+/-25%)
- Excellent adhesion.
- Lead free curing compounds ensure that the product is safe for handling and application.

STORAGE & HANDLING

- Shelf life of 12 months in original unopened containers.
- Store in dry conditions in enclosed warehouse at temperatures not exceeding 25 °C.

TYPICAL INSTALLATION PROCEDURES

- The joint surfaces must be thoroughly dry, clean and dust free.
- All dust and laitance must be removed by wire brushing, grinding or grit blasting. All metal surfaces must be free of rust, scale and protective lacquers. Use a suitable solvent to remove any traces of oil or grease.
- Ensure that the expansion joint filler is tightly packed to avoid the presence of any gaps or spaces at the base of the sealing slot, prior to positioning of the bond breaker tape.
- Polyethylene bond breaker tape and/or Polyethylene backer rod must be used except in expansion joints containing polyethylene foam joint fillers. Backer rod must be 25% larger in diameter than the joint width.
- To ensure a neat finish, use masking tape along the face edges of the joint before priming. Ensure the tapes are removed immediately upon completion of tooling works.
- For more information contact AWAZEL Technical Support Department.



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TECHNICAL DATA SHEET

AWAZEL POLYSULPHIDE SEALANT

Multicomponent Gun and Pouring Grade Polysulphide Sealant

Self-Levelling

Polysulphide Sealant

REF: AWPS-0223

CHARACTERISTICS

PROPERTY	POURING GRADE (Tow Component Paste)	GUN GRADE
Color	Grey	Grey
Density, Kg/L	1.6	1.58
Solid Content, %	100	100
Physical / Chemical Change	Chemical cure	Chemical cure
Hardness Shore A @25 °C	15 - 23	23 - 26
Movement Accomodation Factor , %	25	25
Application Temprature, °C	50	50
Pot Life @25 °C	2 Hours	1 Hour 30 minutes
Setting time	36 Hours @15 °C 16 Hours @25 °C	36 Hours @15 °C 18 Hours @25 °C
Curing time	2 Week @15 °C 1 week @25 °C	2 Week @15 °C 1 week @25 °C
Chemical resistance	Resist Different Kind of Chemicals	Resist Different Kind of Chemicals
Water immersion	Must be Fully cured before water immersion	Must be Fully cured before water immersion

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COVERAGE

Approximate rate:- Joint Size (WxD) MM	Liter / Linear Meter	Linear Meter 4.0ltr pack
5 x 5	0.025	160.00
5 x 10	0.050	80.00
10 x 10	0.10	40.00
20 x 10	0.20	20.00
20 x 20	0.40	10.00



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AWAZEL PU FLEX

Single-Component, Polyurethane-Based, Low Modulus Joint Sealant

Compliance: ASTM C 920 NS Class 25 requirements

High-Performance
Joint Sealants

REF: CMRCL-AWPU-FL-0923

THIS PRODUCT

AWAZEL PU FLEX is a novel low modulus expansion joint sealant, especially formulated to accommodate temperature and humidity climatic fluctuations and conditions. AWAZEL PU FLEX is a non-sagging sealant that cures and sustains its elasticity within joints while adapting to their movement whether expansion or contraction. AWAZEL PU FLEX is suitable for use in submerged conditions in water tanks and swimming pools.

USES & APPLICATIONS

AWAZEL PU FLEX is suitable for sealing joints on various substrates including:

- Super-structure waterproofing (wet-areas, terraces, plaza-decks)
- Sub-structure dampproofing and waterproofing
- As an element of AWAZEL's below-grade waterproofing systems.
- Pile-head waterproofing
- Isolated footings waterproofing in low and medium pressure conditions (in-system design).
- Detailing around substrate penetrations with AWAZEL FABRIC.

HEALTH & SAFETY

- All safety measures should be observed during installation.
- Application team must wear safety goggles and protective gloves.
- Splashes on the skin must be immediately washed off by water and detergents.
- Splashes to the eyes must be rinsed with clean and warm water.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- 12 months when properly stored in original packaging as per storage & handling instructions.

FEATURES & ADVANTAGES

- Excellent Thixotropy
- Primerless on non-porous substrates
- UV resistant and high temperature tolerant (> 60 °C)
Flexible at cold temperature (-40 °C)
- Low modulus
- Total joint movement accommodation up to 50%.
- Nobubbling or swelling after curing
- Excellent adhesion to almost all types of substrates
- Excellent extrusion & tooling
- Excellent storage stability over wide range of climatic conditions.
- Excellent chemical resistance
- Suitable for sealing joints in chemically treated water.
- Resistant to fungus and microorganisms

TYPICAL INSTALLATION PROCEDURES

- Clean joint thoroughly to remove any dust, debris, oil, grease or wax contaminations. Remove any previous remains of silicon.
- For many applications, primer is not required. In the event of application over very porous substrates area surface should be thoroughly cleaned and prepared to avoid the possibility of material bubbling at high surface temperature prior to curing.
- Apply backing material such as open-cell or closed-cell polyurethane backer rods for proper control of material tooling while meeting the specified width and depth recommends per joint size.
- Note: ensure backing material is not punctured to avoid bubbling of material at high temperature.

STORAGE & HANDLING

- Material should be stored in a properly ventilated place away from any damaging natural or artificial conditions.



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TECHNICAL DATA SHEET

AWAZEL PU FLEX

Single-Component, Polyurethane-Based, Low Modulus Joint Sealant
Compliance: ASTM C 920 NS Class 25 requirements

High-Performance Joint Sealants

REF: CMRCL-AWPU-FL-0923

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Specific weight @ 20 °C, g/cm ³	1.45	ASTM D1475 / DIN 53217 / ISO 2811
Hardness, Shore A	2.0	ASTM D2240 / DIN 53505 / ISO R868
Modulus @100% elongation, (N/mm)	0.25	ASTM D412 / EN-ISO-527-3
Elongation (%)	500 ± 10	ASTM D412 / EN-ISO-527-3
Thermal resistance (100 days, 80°C)	Passed	EOTA TR011
Resilience (%)	> 90	DIN 52458
QUV Accelerated Weathering 4hr UV, @ 60 °C UVB-Lamps & 4hr COND at 50 °C	Passed (after 2000 hrs.)	ASTM G53
Adhesion to concrete, kg/cm ² N/mm ²	> 20 > 2	ASTM D4541
HCL (PH=2, 10 days @ RT)	No elastomeric property change	—
Toxicity	No restrictions after full cure	—
Hydrolysis (8% KOH, 15 days @ 50 °C)	No elastomeric property change	—
Hydrolysis (H ₂ O, 30 days-cycle 60-100°C)	No elastomeric property change	—
Service temperature (°C)	(-40) - 80	—
Cure rate (mm / day)	2 - 3	—
Tack free time, @ 77 °F (25 °C) %55 RH, hours	2.0	—
Movement accommodation capability, %	± 25	—

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SUPPLY & PRESENTATION

PROPERTY	TEST METHOD
Packaging	600 cc sausage / 300 cc cartridge
Low modulus material	Packed in toolable usages

COVERAGE (THEORETICAL)

Linear meters per 600cc sausage

DEPTH \ WIDTH	5 mm	10 mm	15 mm	20 mm	25 mm
5 mm	24	12			
10 mm			4.0	3.0	2.4
15 mm					1.6



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AWAZETOOLS RH 100

Multi-Directional Reinjectable Hose

Durable Accessories
For The Construction Industry

REF: AWTLS-RH100-1102

THIS PRODUCT

AWAZETOOLS RH 100 is an integrated injection system designed for injecting various types of resin material in pre-injection and concrete repair applications. AWAZETOOLS RH 100 is manufactured from a special formula of PVC compound through an intricate extrusion process with integral valves that allow the product to be resilient and reliable, suitable for the most challenging projects and site conditions. AWAZETOOLS RH 100 is resistant to, most water solutions of organic chemicals, aliphatic hydrocarbons (fuel), mineral oils, acids, alkalis, and alcohols while fit for use with acrylic, polyurethane resins, or micro fine cement suspensions as injection material.

USES & APPLICATIONS

Injection and reinjection of injectable resins in:

- Construction and expansion joints
- Water retaining structures
(water features, canals, dams and reservoirs.)
- Liquid storage vessels.
- Below-grade concrete structures.
- Subways and tunnels
- Manholes & sewage structures

SUPPLY & PACKAGING

SUPPLIED IN KITS inclusive of:

- 100 lm hose
- 20m (10+10) Net Hose Pipe
- 20 No's Connection Nipple
- 20 No's End Cap (yellow)
- 2 lm shrinkage tube (Black)
- 300 nos. Fixing Clamps
- 20 nos. PreYellow Tape

STORAGE & HANDLING

- Store in a clean, dry and shaded areas away from any contamination sources
- More detailed information can be obtained from MSDS.

FEATURES & ADVANTAGES

- Multi-directional
- Resilient
- Flexible
- Chemically inert
- Resistant to aggressive salts in the soil
- Resistant to weathering conditions
- Accommodates temperature fluctuations
- Immersible in water

GENERAL INSTALLATION GUIDELINES

PREPARATION: Keep AWAZETOOLS RH 100 in a clean storage area prior to use away from any contaminating factors

- Start with assembling all parts and accouris to inclusive
- Fixing shall be at 200 mm - 250mm center to center, to ensure that the hoses do not float in the fresh concrete during concrete casting
- Use sealing caps at the end of the vent hose to prevent concrete from flowing into the hose

Start injection as follows:

- Fill the hose with injection material by means of an injection pump until it flows out from the other end.
- Plug that end with the end cap and apply manual pressure to the hose while resuming injecting until material flow stops and when no trace of any resin drop is seen at the gauge or joint
- Sealing is achieved by conducting moderate pressure and a longer injection time. Avoid conducting high pressure over a brief injection period.
- If required the same procedure may be adopted from the other end of the hose, this is to ensure an even pressure distribution over the whole length of the hose.
- Apply manual pressure to the hose briefly during the gelling time.
- Within the gel time, pressurize the hose again briefly.
- Note: Normally one injection is enough to completely seal the joint, however this depends on the quality of the concrete and/or the water pressure.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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Multi-Directional Reinjectable Hose

Durable Accessories
For The Construction Industry

REF: AWTLS-RH100-1102

CHARACTERISTICS

PROPERTY	VALUE	
	AWAZETOOLS RH 100 13	AWAZETOOLS 100 19
Inner Diameter	6mm	7mm
Outer Diameter	13mm	19mm
Tensile Strength		11.97 MPa
Elongation at Break		280%
Shore A Hardness		80
Water Absorption		0.12% (24 hours)
Cold flexibility		- 40 °C
Discharge openings		3 mm (staggered @ 10 mm)

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

THERMAL INSULATION

SPF (SPRAY POLYURETHANE FOAM)
EXTRUDED POLYSTYRENE BOARDS



TABLE OF CONTENTS

AWAZEFOAM SPRAY PU 200 (4040)

PU 4040 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4040-KSA-0424

THIS PRODUCT

AWAZEFOAM SPRAY PU 200 (4040) is a two-part, moisture-curing and self-expanding polyurethane foam system (Part "A" Polyol & Part "B" Isocyanate) with excellent adhesion to most substrates. When properly installed AWAZEFOAM SPRAY PU 200 (4040) generates a seamless, monolithic and rigid substrate with a nominal core density of 40 kg/m³. AWAZEFOAM SPRAY PU 200 (4040) is an integral part of AWAZEL's COMBOGUARD RF roofing system used as the thermal insulation element that contributes to the efficiency of the system due to its closed-cell-structure and low water absorption ratio. Resulting foams are combustion modified class B3 fire behavior according to DIN 4102.

USES & APPLICATIONS

As thermal insulation element in:

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD RF roofing system.
- Flooring and wall insulation.
- Storage tank insulation.
- Industrial plants and facilities insulation
- Sandwich panel composition.
- Vehicles & cargo ships insulation.
- Other similar applications.

SUPPLY & PACKAGING

- Part "A" (Polyol) 220 Kg Drum
- Part "B" (Isocyanate) 250 Kg drum

COVERAGE RATE

- Average consumption of 1.2- 1.44 kg/m² with 30mm thick application.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water within an aircondition environment with a temperature between +20 °C and +25 °C.
- Keep away from moisture and vapour sources
- Seal all drums properly after use.

FEATURES & ADVANTAGES

- Seamless, monolithic and easy to install.
- UV resistant.
- Excellent thermal insulation
- Very good mechanical properties
- Good dimensional stability
- Excellent adhesion to most substrates such as concrete, metal and wood.

GENERAL INSTALLATION GUIDELINES

Surface Preparation

- Surface to which AWAZEFOAM SPRAY PU 200 (4040) shall be applied must be clean and free of dirt, debris, dust, rust or any other material which may impair adhesion.

Mixing

- 1:1 by volume in the specified reactor. Reactivity and density may vary depend on ambient temperature and humidity.
- This mixture is then sprayed at high pressure layer after layer until the desired thickness is achieved depending on usage and type of application.
- A minimum setting period is maintained between the layers to allow the exothermic reaction between parts "A" & "B".

HEALTH & SAFETY

- The Isocyanate component (Part "B") irritates the respiratory system, eyes and skin. This can incur allergic reactions if inhaled or when comes in contact with skin.
- The required measurements indicated in the safety data sheet should be noted during handling of isocyanate.
- The same procedures should be followed during handling of the Polyol (Part "A").
- All fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- Polyol: 6 Months Maximum
- Isocynate: 12 Months Maximum
(when stored as per recommended storage conditions)



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZEFOAM SPRAY PU 200 (4040)

PU 4040 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4040-KSA-0424

CHARACTERISTICS

PROPERTY	TYPICAL VALUE (4040)			TEST METHOD
	UNIT	PART "A" PU 4040 POLYOL	PART "B" PU 111 ISOCYANATE	
Hydroxyl Nr	mgKOH/g	320	—	ASTM D 4274d
NCO content	%	—	31.0	ASTM D 5155
Viscosity	mPa.s	360 (20 °C)	210 (25 °C)	ASTM D 445
Specific gravity	-	1.18 (20/20 °C)	1.24 (20/20 °C)	ASTM D 891

TYPICAL POLYMER PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE (4040)		TEST METHOD
		POLYMER		
Working ratio Pol/Iso	pbv	100/100		—
Overall applied density	Kg/m ³	40		ASTM D 1622
Closed cell content	%	> 95		ASTM D 2856
Initial thermal conductivity, 23 °C	mW/mK Wm.K	≤ 23 ≤ 0.023		UNI 7891
Compressive strength (thickness direction)	Kpa	250		UNI 6350
Dimensional stability (Linear changes) 48 hrs. @ (-25) °C 48 hrs. @ 70 °C	%	1 mx 1 mx		UNI 8069

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

TYPICAL REACTION CHARACTERISTICS

ITEM	UNIT	HANDMIX	TEST METHOD
Cream time	s	3-4	SH-PM-02 (AWAZEL)
Gel time	s	12	SH-PM-02 (AWAZEL)
Tack-Free time	s	14	SH-PM-02 (AWAZEL)
Free rise density	Kg/m ³	35±2.2	SH-PM-04 (AWAZEL)

NOTE: Reported values may vary depending on processing condition. Data referred to laboratory tests made with Isocyanate component at 20°C and Polyol component at 20°C, hand-mixed with mechanical stirrer at 3000 rpm

PRESENTATION

ATTRIBUTE	RESULT
PART "A" POLYOL	Dark brown colored, undistilled grade of polymeric diphenyl methane di-isocyanate.
PART "B" ISOCYANATE	Low viscosity blend of polyols, hydro fluorocarbon blowing agent, catalysts and surfactant.



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AWAZEFOAM SPRAY PU 200 (4045)

PU 4045 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4045-KSA-0424

THIS PRODUCT

AWAZEFOAM SPRAY PU 200 (4045) is a two-part, moisture-curing and self-expanding polyurethane foam system (Part "A" Polyol & Part "B" Isocyanate) with excellent adhesion to most substrates. When properly installed AWAZEFOAM SPRAY PU 200 (4045) generates a seamless, monolithic and rigid substrate with a nominal core density of 45 kg/m³. AWAZEFOAM SPRAY PU 200 (4045) is an integral part of AWAZEL's COMBOGUARD RF roofing system used as the thermal insulation element that contributes to the efficiency of the system due to its closed-cell-structure and low water absorption ratio. Resulting foams are combustion modified class B3 fire behavior according to DIN 4102.

USES & APPLICATIONS

As thermal insulation element in:

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD RF roofing system.
- Flooring and wall insulation.
- Storage tank insulation.
- Industrial plants and facilities insulation
- Sandwich panel composition.
- Vehicles & cargo ships insulation.
- Other similar applications.

SUPPLY & PACKAGING

- Part "A" (Polyol) 220 Kg Drum
- Part "B" (Isocyanate) 250 Kg drum

COVERAGE RATE

- Average consumption of 1.35 - 1.62 kg/m² with 30mm thick application.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water within an aircondition environment with a temperature between +20 °C and +25 °C.
- Keep away from moisture and vapour sources
- Seal all drums properly after use.

FEATURES & ADVANTAGES

- Seamless, monolithic and easy to install.
- UV resistant.
- Excellent thermal insulation
- Very good mechanical properties
- Good dimensional stability
- Excellent adhesion to most substrates such as concrete, metal and wood.

GENERAL INSTALLATION GUIDELINES

Surface Preparation

- Surface to which AWAZEFOAM SPRAY PU 200 (4045) shall be applied must be clean and free of dirt, debris, dust, rust or any other material which may impair adhesion.

Mixing

- 1:1 by volume in the specified reactor. Reactivity and density may vary depend on ambient temperature and humidity.
- This mixture is then sprayed at high pressure layer after layer until the desired thickness is achieved depending on usage and type of application.
- A minimum setting period is maintained between the layers to allow the exothermic reaction between parts "A" & "B".

HEALTH & SAFETY

- The Isocyanate component (Part "B") irritates the respiratory system, eyes and skin. This can incur allergic reactions if inhaled or when comes in contact with skin.
- The required measurements indicated in the safety data sheet should be noted during handling of isocyanate.
- The same procedures should be followed during handling of the Polyol (Part "A").
- All fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- Polyol: 6 Months Maximum
- Isocyanate: 12 Months Maximum
(when stored as per recommended storage conditions)



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZEFOAM SPRAY PU 200 (4045)

PU 4045 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4045-KSA-0424

CHARACTERISTICS

PROPERTY	TYPICAL VALUE (4045)			TEST METHOD
	UNIT	PART "A" PU 4045 POLYOL	PART "B" PU 111 ISOCYANATE	
Hydroxyl Nr	mgKOH/g	320	—	ASTM D 4274d
NCO content	%	—	31.0	ASTM D 5155
Viscosity	mPa.s	250 (20 °C - 25 °C)	210 (25 °C)	ASTM D 445
Specific gravity	-	1.105 (25/20 °C)	1.24 (20/20 °C)	ASTM D 891

TYPICAL POLYMER PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE (4045)		TEST METHOD
		POLYMER		
Working ratio Pol/Iso	pbv	100/120		—
Overall applied density	Kg/m ³	42 - 45		ASTM D 1622
Closed cell content	%	> 95		ASTM D 2856
Initial thermal conductivity, 23 °C	mW/mK Wm.K	≤ 23 ≤ 0.023		UNI 7891
Compressive strength (thickness direction)	Kpa	300		UNI 6350
Dimensional stability (Linear changes) 48 hrs. @ (-25) °C 48 hrs. @ 70 °C	%	1 mx 1 mx		UNI 8069

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

TYPICAL REACTION CHARACTERISTICS

ITEM	UNIT	HANDMIX	TEST METHOD
Cream time	s	3-4	SH-PM-02 (AWAZEL)
Gel time	s	12	SH-PM-02 (AWAZEL)
Tack-Free time	s	14	SH-PM-02 (AWAZEL)
Free rise density	Kg/m ³	30 - 32	SH-PM-04 (AWAZEL)

NOTE: Reported values may vary depending on processing condition. Data referred to laboratory tests made with Isocyanate component at 20°C and Polyol component at 20°C, hand-mixed with mechanical stirrer at 3000 rpm

PRESENTATION

ATTRIBUTE	RESULT
PART "A" POLYOL	Dark brown colored, undistilled grade of polymeric diphenyl methane di-isocyanate.
PART "B" ISOCYANATE	Low viscosity blend of polyols, hydro fluorocarbon blowing agent, catalysts and surfactant.



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AWAZEFOAM SPRAY PU 200 (4045s)

PU 4045s POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4045s-KSA-0424

THIS PRODUCT

AWAZEFOAM SPRAY PU 200 (4045s) is a two-part, moisture-curing and self-expanding polyurethane foam system (Part "A" Polyol & Part "B" Isocyanate) with excellent adhesion to most substrates. When properly installed AWAZEFOAM SPRAY PU 200 (4045s) generates a seamless, monolithic and rigid substrate with a nominal core density of 45- 50 kg/m³. AWAZEFOAM SPRAY PU 200 (4045s) is an integral part of AWAZEL's COMBOGUARD RF roofing system used as the thermal insulation element that contributes to the efficiency of the system due to its closed-cell-structure and low water absorption ratio. Resulting foams are combustion modified class B3 fire behavior according to DIN 4102. AWAZEFOAM SPRAY PU 200 (4045s) features Zero ODP & GWP Less than 5.

USES & APPLICATIONS

As thermal insulation element in:

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD RF roofing system.
- Flooring and wall insulation.
- Storage tank insulation.
- Industrial plants and facilities insulation
- Sandwich panel composition.
- Vehicles & cargo ships insulation.
- Other similar applications.

SUPPLY & PACKAGING

- Part "A" (Polyol) 220 Kg Drum
- Part "B" (Isocyanate) 250 Kg drum

COVERAGE RATE

- Average consumption of 1.50 - 1.8 kg/m² with 30mm thick application.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water within an aircondition environment with a temperature between +20 °C and +25 °C.
- Keep away from moisture and vapour sources
- Seal all drums properly after use.

FEATURES & ADVANTAGES

- Seamless, monolithic and easy to install.
- UV resistant.
- Excellent thermal insulation
- Very good mechanical properties
- Good dimensional stability
- Excellent adhesion to most substrates such as concrete, metal and wood.

GENERAL INSTALLATION GUIDELINES

Surface Preparation

- Surface to which AWAZEFOAM SPRAY PU 200 (4045s) shall be applied must be clean and free of dirt, debris, dust, rust or any other material which may impair adhesion.

Mixing

- 1:1 by volume in the specified reactor. Reactivity and density may vary depend on ambient temperature and humidity.
- This mixture is then sprayed at high pressure layer after layer until the desired thickness is achieved depending on usage and type of application.
- A minimum setting period is maintained between the layers to allow the exothermic reaction between parts "A" & "B".

HEALTH & SAFETY

- The Isocyanate component (Part "B") irritates the respiratory system, eyes and skin. This can incur allergic reactions if inhaled or when comes in contact with skin.
- The required measurements indicated in the safety data sheet should be noted during handling of isocyanate.
- The same procedures should be followed during handling of the Polyol (Part "A").
- All fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- Polyol: 6 Months Maximum
- Isocynate: 12 Months Maximum
(when stored as per recommended storage conditions)



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZEFOAM SPRAY PU 200 (4045s)

PU 4045s POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4045s-KSA-0424

CHARACTERISTICS

PROPERTY	TYPICAL VALUE (4045s)			TEST METHOD
	UNIT	PART "A" PU 4045s POLYOL	PART "B" PU 111 ISOCYANATE	
Hydroxyl Nr	mgKOH/g	320	—	ASTM D 4274d
NCO content	%	—	31.0	ASTM D 5155
Viscosity	mPa.s	400 (20 °C)	210 (25 °C)	ASTM D 445
Specific gravity	-	1.12 (20/20 °C)	1.24 (25/25 °C)	ASTM D 891

TYPICAL POLYMER PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE (4045s)		TEST METHOD
		POLYMER		
Working ratio Pol/Iso	pbv	100/100		—
Overall applied density	Kg/m ³	45 - 50		ASTM D 1622
Closed cell content	%	> 95		ASTM D 2856
Initial thermal conductivity, 23 °C	mW/mK Wm.K	22- 30 0.022 - 0.030		UNI 7891
Compressive strength (thickness direction)	Kpa	360		UNI 6350
Dimensional stability (Linear changes) 48 hrs. @ (-25) °C 48 hrs. @ 70 °C	%	1 mx 1 mx		UNI 8069

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

TYPICAL REACTION CHARACTERISTICS

ITEM	UNIT	HANDMIX	TEST METHOD
Cream time	s	3-4	SH-PM-02 (AWAZEL)
Gel time	s	12	SH-PM-02 (AWAZEL)
Tack-Free time	s	14	SH-PM-02 (AWAZEL)
Free rise density	Kg/m ³	45 - 50	SH-PM-04 (AWAZEL)

NOTE: Reported values may vary depending on processing condition. Data referred to laboratory tests made with Isocyanate component at 20°C and Polyol component at 20°C, hand-mixed with mechanical stirrer at 3000 rpm

PRESENTATION

ATTRIBUTE	RESULT
PART "A" POLYOL	Dark brown colored, undistilled grade of polymeric diphenyl methane di-isocyanate.
PART "B" ISOCYANATE	Low viscosity blend of polyols, hydro fluorocarbon blowing agent, catalysts and surfactant.



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AWAZEFOAM SPRAY PU 200 (4048)

PU 4048 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4048-AE-REG-0424

THIS PRODUCT

AWAZEFOAM SPRAY PU 200 (4048) is a two-part, moisture-curing and self-expanding polyurethane foam system (Part "A" Polyol & Part "B" Isocyanate) with excellent adhesion to most substrates. When properly installed AWAZEFOAM SPRAY PU 200 (4048) generates a seamless, monolithic and rigid substrate with a nominal core density of 48 kg/m³. AWAZEFOAM SPRAY PU 200 (4048) is an integral part of AWAZEL's COMBOGUARD RF roofing system used as the thermal insulation element that contributes to the efficiency of the system due to its closed-cell-structure and low water absorption ratio. Resulting foams are combustion modified class B3 fire behavior according to DIN 4102.

USES & APPLICATIONS

As thermal insulation element in:

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD RF roofing system.
- Flooring and wall insulation.
- Storage tank insulation.
- Industrial plants and facilities insulation
- Sandwich panel composition.
- Vehicles & cargo ships insulation.
- Other similar applications.

SUPPLY & PACKAGING

- Part "A" (Polyol) 220 Kg Drum
- Part "B" (Isocyanate) 250 Kg drum

COVERAGE RATE

- Average consumption of 1.5 -1.8 kg/m² with 30mm thick application.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water within an aircondition environment with a temperature between +20 °C and +25 °C.
- Keep away from moisture and vapour sources
- Seal all drums properly after use.

FEATURES & ADVANTAGES

- Seamless, monolithic and easy to install.
- UV resistant.
- Excellent thermal insulation
- Very good mechanical properties
- Good dimensional stability
- Excellent adhesion to most substrates such as concrete, metal and wood.

GENERAL INSTALLATION GUIDELINES

Surface Preparation

- Surface to which AWAZEL PU SPRAY FOAM shall be applied must be clean and free of dirt, debris, dust, rust or any other material which may impair adhesion.

Mixing

- 1:1 by volume in the specified reactor. Reactivity and density may vary depend on ambient temperature and humidity.
- This mixture is then sprayed at high pressure layer after layer until the desired thickness is achieved depending on usage and type of application.
- A minimum setting period is maintained between the layers to allow the exothermic reaction between parts "A" & "B".

HEALTH & SAFETY

- The Isocyanate component (Part "B") irritates the respiratory system, eyes and skin. This can incur allergic reactions if inhaled or when comes in contact with skin.
- The required measurements indicated in the safety data sheet should be noted during handling of isocyanate.
- The same procedures should be followed during handling of the Polyol (Part "A").
- All fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- Polyol: 6 Months Maximum
- Isocynate: 12 Months Maximum
(when stored as per recommended storage conditions)



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZEFOAM SPRAY PU 200 (4048)

PU 4048 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF:AWFS4048-AE-REG-0424

CHARACTERISTICS

PROPERTY	TYPICAL VALUE (4048)			TEST METHOD
	UNIT	PART "A" POLYOL	PART "B" ISOCYANATE	
Hydroxyl Nr	mgKOH/g	320	—	ASTM D4274d
NCO content	%	—	31.0	ASTM D 5155
Viscosity	mPa.s	360 (20 °C)	210 (25 °C)	ASTM D445
Specific Gravity	-	1.18 (20/20 °C)	1.24 (20/20 °C)	ASTM D891

TYPICAL POLYMER PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE (4048)		TEST METHOD
		POLYMER		
Working ratio Pol/Iso	pbv	100/100		—
Overall applied density	Kg/m ³	48- 52		ASTM D1622
Closed cell content	%	> 95		ASTM D6226
Initial thermal conductivity, 23 °C	mW/mK Wm.K	≤ 20.50 ≤ 0.020		UNI 7891
Compressive strength (thickness direction)	Kpa	280 - 300		UNI 6350
Dimensional stability (Linear changes) 48 hrs. @ (-25) °C 48 hrs. @ 70 °C	%	1 mx 1 mx		UNI 8069

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

TYPICAL REACTION CHARACTERISTICS

ITEM	UNIT	HANDEMIX	TEST METHOD
Cream time	s	3-4	SH-PM-02 (AWAZEL)
Gel time	s	12	SH-PM-02 (AWAZEL)
Tack-Free time	s	14	SH-PM-02 (AWAZEL)
Free rise density	Kg/m ³	35±2.2	SH-PM-04 (AWAZEL)

NOTE: Reported values may vary depending on processing condition. Data referred to laboratory tests made with Isocyanate component at 20°C and Polyol component at 20°C, hand-mixed with mechanical stirrer at 3000 rpm

PRESENTATION

ATTRIBUTE	RESULT
PART "A" POLYOL	Dark brown colored, undistilled grade of polymeric diphenyl methane di-isocyanate.
PART "B" ISOCYANATE	Low viscosity blend of polyols, hydro fluorocarbon blowing agent, catalysts and surfactant.



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AWAZEFOAM SPRAY PU 200 (4050)

PU 4050 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4050-KSA-0424

THIS PRODUCT

AWAZEFOAM SPRAY PU 200 (4050) is a two-part, moisture-curing and self-expanding polyurethane foam system (Part "A" Polyol & Part "B" Isocyanate) with excellent adhesion to most substrates. When properly installed AWAZEFOAM SPRAY PU 200 (4050) generates a seamless, monolithic and rigid substrate with a nominal core density of 48 - 50 kg/m³. AWAZEFOAM SPRAY PU 200 (4050) is an integral part of AWAZEL's COMBOGUARD RF roofing system used as the thermal insulation element that contributes to the efficiency of the system due to its closed-cell-structure and low water absorption ratio. AWAZEFOAM SPRAY PU 200 (4050) features Zero ODP & GWP Less than 5. Resulting foams are combustion modified class B3 fire behavior according to DIN 4102.

USES & APPLICATIONS

As thermal insulation element in:

- Roof waterproofing; independently or as part of AWAZEL's COMBOGUARD RF roofing system.
- Flooring and wall insulation.
- Storage tank insulation.
- Industrial plants and facilities insulation
- Sandwich panel composition.
- Vehicles & cargo ships insulation.
- Other similar applications.

SUPPLY & PACKAGING

- Part "A" (Polyol) 220 Kg Drum
- Part "B" (Isocyanate) 250 Kg drum

COVERAGE RATE

- Average consumption of 1.8 - 2.0 kg/m² with 30mm thick application.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water within an aircondition environment with a temperature between +20 °C and +25 °C.
- Keep away from moisture and vapour sources
- Seal all drums properly after use.

FEATURES & ADVANTAGES

- Seamless, monolithic and easy to install.
- UV resistant.
- Excellent thermal insulation
- Very good mechanical properties
- Good dimensional stability
- Excellent adhesion to most substrates such as concrete, metal and wood.

GENERAL INSTALLATION GUIDELINES

Surface Preparation

- Surface to which AWAZEFOAM SPRAY PU 200 (4050) shall be applied must be clean and free of dirt, debris, dust, rust or any other material which may impair adhesion.

Mixing

- 1:1 by volume in the specified reactor. Reactivity and density may vary depend on ambient temperature and humidity.
- This mixture is then sprayed at high pressure layer after layer until the desired thickness is achieved depending on usage and type of application.
- A minimum setting period is maintained between the layers to allow the exothermic reaction between parts "A" & "B".

HEALTH & SAFETY

- The Isocyanate component (Part "B") irritates the respiratory system, eyes and skin. This can incur allergic reactions if inhaled or when comes in contact with skin.
- The required measurements indicated in the safety data sheet should be noted during handling of isocyanate.
- The same procedures should be followed during handling of the Polyol (Part "A").
- All fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

SHELF LIFE

- Polyol: 6 Months Maximum
- Isocynate: 12 Months Maximum
(when stored as per recommended storage conditions)



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

AWAZEFOAM SPRAY PU 200 (4050)

PU 4050 POLYOL, PU 111 ISOCYANATE

Two-Part Spray Polyurethane Foam (Polyol & Isocyanate)

Spray-Applied Polyurethane Foam
Thermal Insulation

REF: AWFS4050-KSA-0424

CHARACTERISTICS

PROPERTY	TYPICAL VALUE (4050)			TEST METHOD
	UNIT	PART "A" PU 4050 POLYOL	PART "B" PU 111 ISOCYANATE	
Hydroxyl Nr	mgKOH/g	320	—	ASTM D 4274d
NCO content	%	—	31.0	ASTM D 5155
Viscosity	mPa.s	360 (20 °C)	210 (25 °C)	ASTM D 445
Specific gravity	-	1.18 (25/20 °C)	1.24 (25/25 °C)	ASTM D 891

TYPICAL POLYMER PROPERTIES

PROPERTY	UNIT	TYPICAL VALUE (4050)		TEST METHOD
		POLYMER		
Working ratio Pol/Iso	pbv	100/100	—	—
Overall applied density	Kg/m ³	48 - 50	—	ASTM D 1622
Closed cell content	%	> 95	—	ASTM D 2856
Initial thermal conductivity, 23 °C	mW/mK Wm.K	22 - 30 0.022 - 0.030	—	UNI 7891
Compressive strength (thickness direction)	Kpa	280 - 300	—	UNI 6350
Dimensional stability (Linear changes) 48 hrs. @ (-25) °C 48 hrs. @ 70 °C	%	1 mx 1 mx	—	UNI 8069

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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TYPICAL REACTION CHARACTERISTICS

ITEM	UNIT	HANDEMIX	TEST METHOD
Cream time	s	3-4	SH-PM-02 (AWAZEL)
Gel time	s	12	SH-PM-02 (AWAZEL)
Tack-Free time	s	14	SH-PM-02 (AWAZEL)
Free rise density	Kg/m ³	35 (± 2.2)	SH-PM-04 (AWAZEL)

NOTE: Reported values may vary depending on processing condition. Data referred to laboratory tests made with Isocyanate component at 20°C and Polyol component at 20°C, hand-mixed with mechanical stirrer at 3000 rpm

PRESENTATION

ATTRIBUTE	RESULT
PART "A" POLYOL	Dark brown colored, undistilled grade of polymeric diphenyl methane di-isocyanate.
PART "B" ISOCYANATE	Low viscosity blend of polyols, hydro fluorocarbon blowing agent, catalysts and surfactant.



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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL FOAM XPS"

AWAZEROOFMATE XPS (ARM)

High-Performance Extruded Polystyrene Rigid Thermal Insulation Boards

Compliance: ASTM C 578

ARM 29 - 35
ARM 32 - 35
ARM 35 - 50
ARM HD 38 - 50
ARM HD 45 - 50
ARM HD 48 - 50

Thermal Insulation Extruded Polystyrene Boards

REF: COMM-XPSARM-0125

THIS PRODUCT

AWAZEROOFMATE XPS (ARM) is a line of high performance extruded polystyrene thermal insulation foam boards for the construction industry. AWAZEROOFMATE XPS (ARM) are made in a continuous skin surface and developed into a close cell structure featuring uniform density distribution, dimensional stability, very high compressive strength, aging resistance and resistance to insects, pests, bacteria, and rodent attacks. It also provides good physical properties and long-term performance. The homogeneous structure of AWAZEROOFMATE XPS (ARM) allows for high resistance to water and vapor diffusion that delays the change in the cell gas composition, Aging phenomenon is thus tremendously slowed down, leading to a stable, long term, low thermal conductivity of approximately 0.028 W/mk at 35°C mean temperature. AWAZEROOFMATE XPS (ARM) line of products is produced in a variety of thickness, density and edge profile (Shiplap (SL), Tongue & Groove (TG) and Straight Edge (E)) to suit the different requirements of thermal insulation applications.

USES & APPLICATIONS

- Roofing (inverted & conventional)
- Flooring
- Interior walls
- Exterior walls
- Cavity walls
- Precast
- Support under wood and concrete slabs
- Protection for waterproofing systems in below-grade applications.
- Lamination & Panel production

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Exceptional compressive strength
- Excellent moisture-resistance
- Low thermal conductivity
- High thermal insulation performance
- Lightweight, easy to cut and install
- Shiplap, tongue & groove and straight edge
- Excellent resistance to most chemicals

GENERAL INSTALLATION GUIDELINES

- AWAZEROOFMATE XPS (ARM) boards are placed suitably over substrates.
- Could be adhered or mechanically fastened depending on design and application.
- Once placed over the roof the insulation boards should not be left exposed, to avoid potential damage. It is recommended that insulation boards should be covered immediately with the following system, such as AWAZELTEX Filter Fabric, paving slabs, screed or gravel.
- More than one layer of AWAZEROOFMATE XPS (ARM) could be stacked in a staggered pattern to achieve the thickness and U-value specified.

SUPPLY & PACKAGING

- Supplied in rigid boards:
- Dimensions: 600 mm x 1250 mm or 600mm x 2500 mm
- Thickness: 40 mm, 50 mm, 75mm, 100 mm, Other thickness and dimensions are available upon request.

STORAGE & HANDLING

- AWAZEROOFMATE XPS (ARM) should be stored in a clean, dry and flat area protected from direct sun light.
- Keep away from open flames and other sources of ignition.
- During summer the built-up temperature underneath the boards exposed to direct sunlight may rise to around 90 °C which may damage the insulation board.



This product is manufactured under ISO9001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL FOAM XPS"

AWAZEROOFMATE XPS (ARM)

High-Performance Extruded Polystyrene Rigid Thermal Insulation Boards

Compliance: ASTM C 578

ARM 29 - 35
ARM 32 - 35
ARM 35 - 50
ARM HD 38 - 50
ARM HD 45 - 50
ARM HD 48 - 50

Thermal Insulation
Extruded Polystyrene Boards

REF: COMM-XPSARM-0125

CHARACTERISTICS

PROPERTY	NOMINAL VALUE						TEST METHOD
	ARM 29 - 35 TYPE VI	ARM 32 - 35 TYPE VI	ARM 35 - 50 TYPE VII	ARM (HD) 38 - 50 TYPE VII	ARM (HD) 45-50 TYPE VII	ARM (HD) 48-50 TYPE V	
Density, min Kg/m ³ Lb/ft ³	29 - 35 1.8 - 2.2	32 - 35 2.0 - 2.2	35 - 50 2.2 - 3.12	38 - 50 2.4 - 3.12	45 - 50 2.8 - 3.12	48 - 50 3.0 - 3.12	ASTM C 303 / DIN 53420 ASTM D-1622
Thermal Conductivity, Max, W/m·K @ 35°C and 60% RH	0.028	0.028	0.028	0.027	0.026	0.026	ASTM C 518-21
Compressive strength at 10% deflection Kpa psi	276 - 414 40 - 60	285 - 414 41 - 60	414 - 500 60 - 70	450 - 600 65 - 81	500 - 700 70 - 101	690 - 800 100 - 116	DIN 53421 ASTM D-1621
Water absorption by submersion % by vol. % by vol.	0.2 ≤ 1.0	DIN 53428 / ASTM C272/C272M-18 ASTM D-2842 (± 1% by vol. precision)					
Water vapour diffusion Resistance to factor, μ	100 - 200	100 - 200	100 - 200	150	220	220	DIN 52615
Water vapour permeability, Perm inch	0.4 - 0.6	0.4 - 0.6	0.4 - 0.6	0.6	0.4	0.4	ASTM E96/E96M-16
Capillarity	None	None	None	None	None	None	—
Heat stability/ compressive creep 20 kPa, 80 °C Type, 2.8 psi, 176 °F 40 kPa, 70 °C Type, 5.6 psi, 158 °F	WD WS	WD WS	WD WS	WD WS	WD WS	WD WS	DIN 18164
Linear coefficient of thermal expansion and contraction (Heat soaking conditions) °C1 °F1	70x10 ⁻⁶ 39x10 ⁻⁶	DIN 52328					
Irreversible dimensional variation (Result of lab test with temperature changes up to 60 °C)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	—
Fire classification upon customer request	B1 (difficult to ignite)						DIN 4102
Fire classification (Germany) of Standard Product	B2 (difficult to ignite)						DIN 4102
Underwriters Laboratories (UL) classification according to ASTM-E 84 Standard Test Method for Surface Burning Characteristics of building materials under designation ASTM C 578	5.0 165						UL 723 / ASTM E 84 Flame Spread Smoke Developed For max. 4pcf density and 4" max. thickness

- NOTE (1): The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
- AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



This product is manufactured under ISO9001 management systems for Quality, Environment, Health & Safety

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ARM HD 48 - 50

Thermal Insulation
Extruded Polystyrene Boards

REF: COMM-XPSARM-0125

ATTRIBUTES

THICKNESS (Inch)	R-VALUE (ft ² .h.F/Btu)	THICKNESS (mm)	R-VALUE (m ² k/W)
1.5	8 - 8.8	40	1.43 - 1.54
2.0	10 - 11	50	1.78 - 1.92
3.0	15 - 16.5	75	2.68 - 2.88
4.0	20 - 22	100	3.57 - 3.88



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PRODUCT TECHNICAL DATA SHEET

AWAZEL

**AWAZECIVIL
SYSTEMS**

PRODUCTS FOR INFRASTRUCTURE
CIVIL ENGINEERING WORKS



TABLE OF CONTENTS

CLEARBINDER - ACB

Non-Asphaltic Hot Mix Binder

AWAZECIVIL

REF: AWCVL-CBACB-JUL2022

THIS PRODUCT

AWAZECIVIL CLEARBINDER - ACB is a high performance non-asphaltic hot mix pigment-compatible binder used for fusing a coloured aggregate layer for the wearing course's surface. AWAZECIVIL CLEARBINDER - ACB follows the state-of-the-art technology in incorporating a uniform, robust colour pigment over black asphalt to serve both the operational and aesthetic purposes of road construction.

AWAZECIVIL CLEARBINDER - ACB blend comprises highly flexible and elastic binding agents with excellent bonding capabilities to all types of aggregates due to its distinguished formula that includes special resins, elastomers, tackifying agents and other stabilizing additives that all together provide a long lasting performance capability to the binder as well as to the wearing course system. The application AWAZECIVIL CLEARBINDER - ACB does not require a any tack coat or rapid curing coat to complete the application.

USES & APPLICATIONS

AWAZECIVIL CLEARBINDER ACB is suitable for the following applications:

- Transit tracks,
- Highway medians
- Bus lanes
- Pedestrian lanes
- Biking lanes
- Footpaths
- Public tracks
- Sports tracks
- Landscape surroundings

FEATURES & ADVANTAGES

- Durable & long service life
- Excellent bond-strength and binding capabilities to all types of aggregates
- Accommodates temperature fluctuation.
- Compatible with speciality colouring pigments supplied by AWAZEL
- Outstanding productivity

MIX DESIGN

- **AGGREGATES:** According to project's specifications
- **COLOUR PIGMENTS:** 0 - 4 % within the aggregate mix depending on projects' requirements
- **CLEAR BINDER:** 6 - 8% in aggregate + coloured pigment mix

SUPPLY & PACKING

- Supplied in bulk or drums as per projects' requirements

STORAGE & HANDLING

- Bulk Storage: recommended to store in a tanks with agitation and heating facility.
- Material should be kept in original packing in a properly ventilated or shaded area.
- Drums should be stored in shaded areas in their original packing.



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CLEARBINDER - ACB

Non-Asphaltic Hot Mix Binder

AWAZECIVIL

REF: AWCVL-CBACB-JUL2022

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Softening Point, (R&B), °C	≥ 50	AASHTO T 51 ASTM D 36
Penetration at 25 °C, dmm	60 – 80	AASHTO T 49 ASTM D 5
Brookfield Viscosity at 135 °C, Spindle 27, 20 rpm, cP	≤ 3,000	ASTM D 4402 AASHTO T 316
Viscosity @ 165 °C	≤ 1000	ASTM D 4402 AASHTO T 316
Density at 25 °C, g/cc	0.85 – 1.02	ASTM D 70 AASHTO T 228

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NOTE (2): AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

ATTRIBUTES

PROPERTY	VALUE
Initial Compaction Temperature	135-150 °C No compaction below 100 °C. Compaction should be done by Light Weight Compaction Vehicle
Mixing Temperature	150 – 170 °C Mixing Temperature could be determined according to viscosity Vs. temperature chart
Colour	Wide range of colours according to requirements and specifications

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BINDRPROTECT- ABP

Ceramic Protective Coating

AWAZECIVIL

REF: AWCVL-BPABP-JUL2022

THIS PRODUCT

AWAZECIVIL BINDERPROTECT – ABP is single-component, transparent, strong, resilient, water-base liquid ceramic emulsion with an excellent bond-strength to substrates and a lasting abrasion resistance. Due to its durability, AWAZECIVIL BINDERPROTECT – ABP does not easily wash away or break down nor does it require repeated application every few months. AWAZECIVIL BINDERPROTECT – ABP adds supplementary protection to areas treated with AWAZECIVIL CLEARBINDER – ACB as part of a routine maintenance programme. It is suitable for large-span application while saving cost and time.

USES & APPLICATIONS

Protective coating over various substrates such as:

- Mineral substrates
- Bricks
- Sand-lime bricks
- Natural sandstone
- Mineral plasters
- Clay
- Aerated concrete
- Reinforced concrete for roads & bridges
- Fibrous cement
- Mineral fibers
- Lightweight aggregate.

FEATURES & ADVANTAGES

- VOC compliant
- UV resistant
- Durable
- Excellent bond strength
- Excellent abrasion resistance
- Dust, water & moisture repellent
- Storage-stable

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION: Prior to application

- The surface should be dry and thoroughly cleaned. Any debris shall be removed by air-blowing or other approved suitable method.
- Oil and grease stains shall be removed using the recommended method by AWAZEL (water and detergent as per point 4.1 above).
- Once substrate is ready, AWAZECIVIL BINDERPROTECT – ABP shall be poured uniformly over the substrate at a coverage rate of 0.250 L/m² (one lane at a time, then followed by installation over adjacent lanes).
- While material is still wet, coloured aggregates – according to original colour- could be broadcast over the area to absorb excess residue.
- Excess aggregates could be later removed using a brooming method. After application, protect from traffic flow until full dry to avoid adhesion to vehicle tires.



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BINDRPROTECT- ABP

Ceramic Protective Coating

AWAZECIVIL

REF: AWCVL-BPABP-JUL2022

SUPPLY & PACKING

- 18 Kg pails
- 180 Kg drums
- Other larger bulk packaging upon request

STORAGE & HANDLING

- Material should be stored in a properly ventilated or shaded area.
- Material should be stored in shaded areas in their original packing.

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TECHNICAL DATA SHEET

Formerly Known as "AWZEL PG ASPHALT"

PG ASPHALT BINDER MSCR 70V

Performance Graded SBS Modified Asphalt Binder

Compliance: AASHTO M332, ASTM 8239

AWAZEPAVE

REF: MNFG-PGMSCR70V-24092024

THIS PRODUCT

AWAZEPAVE PG ASPHALT BINDER MSCR 70V is AWAZEL's line of SBS modified asphalt binder designed to avoid potential consequential damages incurred to the asphalt due to pavement's temperature fluctuations such as fatigue, rutting (at high temperature of pavement), and thermal cracking (at low temperature of pavement). Whether used in new pavement construction or maintenance of existing pavement. PG ASPHALT BINDER MSCR 70V products deliver excellent results when mixed and laid properly according to specifications and municipal guidelines. PG ASPHALT BINDER MSCR 70V is supplied in two grades (PG70V-10) and (PG70V-16) meeting HMA (Hot Mixed Asphalt) pavement and SHRP (Strategic Highway Research Program) performance parameters.

USES & APPLICATIONS

- New pavement construction
- Existing pavement maintenance

FEATURES & ADVANTAGES

- Excellent viscosity at high temperature
- Excellency dynamic shear
- Stable creep stiffness
- Minimal mass change

GENERAL INSTALLATION GUIDELINES

- PG ASPHALT BINDER MSCR 70V products are designed to be mixed with aggregate at batching plants, transported to the job site, placed with a paver, and compacted following local authorities' guidelines.

SUPPLY & PACKAGING

- Bulk

STORAGE

- Preferred to store in tanks with agitation facility.



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PG ASPHALT BINDER MSCR 70V

Performance Graded SBS Modified Asphalt Binder

Compliance: AASHTO M332, ASTM 8239

AWAZEPAVE

REF: MNFG-PGMSCR70V-24092024

CHARACTERISTICS

PROPERTIES	NOMINAL VALUE		TEST METHOD
	PG 70V-10	PG 70V-16	
Flash Point (COC), minimum, °C	230	230	AASHTOT 48 ASTM D 92
Viscosity at 135 °C, maximum, mPa.s (cP)	3000	3000	AASHTO T316 ASTM D 4402
Dynamic Shear (DSR), @ 70 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	1.0	1.0	AASHTO T315 ASTM D 7175
Rolling Thin Film Oven Test (RTFOT) Residue -ASTM D 2872			
Mass change, maximum, %	1.0	1.0	AASHTO T240 ASTM D 2872
MSCR (Multiple Stress Creep Recovery) Jnr @ 3.2, (at 70 °C), maximum kPa	1.0	1.0	AASHTO T350 ASTM D 7405
MSCR (Multiple Stress Creep Recovery) Jnr difference, (at 70 °C), maximum kPa	75	75	AASHTO T350 ASTM D 7405
Pressure Aging Vessel (PAV) Residue at 110 °C (AASHTO R28)			
Dynamic Shear (DSR) @ 70 °C, G*/sinδ, 8 mm plate, at 10 rad/s, min. kPa	6000 @ 34 °C	6000 @ 31 °C	AASHTO T315 ASTM D 7175
Creep stiffness, s-value, at 60 s, max., Mpa	300 @ 0 °C	300 @ (-6) °C	AASHTO T313 ASTM D 6648
Creep stiffness, m-value, at 60 s, minimum	0.300 @ 0 °C	0.300 @ (-6) °C	AASHTO T313 ASTM D 6648
Direct Tension, Failure Strain, at 1.0mm/ min., minimum, %	1.0 @ 0 °C	1.0 @ 0 °C	AASHTO T314 ASTM D 6816

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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Performance Graded SBS Modified Asphalt Binder

Compliance: AASHTO M332, ASTM 8239

AWAZEPAVE

REF: MNFG-PGMSCR76H-24092024

THIS PRODUCT

AWAZEPAVE PG ASPHALT BINDER MSCR 76H is AWAZEL's line of SBS modified asphalt binder designed to avoid potential consequential damages incurred to the asphalt due to pavement's temperature fluctuations such as fatigue, rutting (at high temperature of pavement), and thermal cracking (at low temperature of pavement). Whether used in new pavement construction or maintenance of existing pavement; PG ASPHALT BINDER MSCR 76H products deliver excellent results when mixed and laid properly according to specifications and municipal guidelines. PG ASPHALT BINDER MSCR 76H is supplied in two grades (PG MSCR 76H-10) and (PG MSCR 76H-16) meeting HMA (Hot Mixed Asphalt) pavement and SHRP (Strategic Highway Research Program) performance parameters.

USES & APPLICATIONS

- New pavement construction
- Existing pavement maintenance

FEATURES & ADVANTAGES

- Excellent viscosity at high temperature
- Excellency dynamic shear
- Stable creep stiffness
- Minimal mass change

GENERAL INSTALLATION GUIDELINES

- PG ASPHALT BINDER MSCR 76H products are designed to be mixed with aggregate at batching plants, transported to the job site, placed with a paver, and compacted following local authorities' guidelines.

SUPPLY & PACKAGING

- Bulk

STORAGE

- Preferred to store in tanks with agitation facility.



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TECHNICAL DATA SHEET

Formerly Known as "AWZEL PG ASPHALT"

PG ASPHALT BINDER MSCR 76H

Performance Graded SBS Modified Asphalt Binder

Compliance: AASHTO M332, ASTM 8239

AWAZEPAVE

REF: MNFG-PGMSCR76H-24092024

CHARACTERISTICS

PROPERTIES	NOMINAL VALUE		TEST METHOD
	PG 76H-10	PG 76H-16	
Flash Point (COC), minimum, °C	230	230	AASHTOT 48 ASTM D 92
Viscosity at 135 °C, maximum, mPa.s (cP)	3000	3000	AASHTO T316 ASTM D 4402
Dynamic Shear (DSR), @ 76 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	1.0	1.0	AASHTO T315 ASTM D 7175
Rolling Thin Film Oven Test (RTFOT) Residue -ASTM D 2872			
Mass change, maximum, %	1.0	1.0	AASHTO T240 ASTM D 2872
MSCR (Multiple Stress Creep Recovery) Jnr @ 3.2, (at 76 °C), maximum kPa	1.0	1.0	AASHTO T350 ASTM D 7405
MSCR (Multiple Stress Creep Recovery) Jnr difference, (at 76 °C), maximum kPa	75	75	AASHTO T350 ASTM D 7405
Pressure Aging Vessel (PAV) Residue at at 110 °C (AASHTO R28)			
Dynamic Shear (DSR) @ 76 °C, G*/sinδ, 8 mm plate, at 10 rad/s, min. kPa	6000 @ 37 °C	6000 @ 34 °C	AASHTO T315 ASTM D 7175
Creep stiffness, s-value, at 60 s, max., Mpa	300 @ 0 °C	300 @ (-6) °C	AASHTO T313 ASTM D 6648
Creep stiffness, m-value, at 60 s, minimum	0.300 @ 0 °C	0.300 @ (-6) °C	AASHTO T313 ASTM D 6648
Direct Tension, Failure Strain, at 1.0mm/ min., minimum, %	1.0 @ 0 °C	1.0 @ 0 °C	AASHTO T314 ASTM D 6816

NOTES:

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AWAZEPRIME PIPRIME 100

Specialty Bituminous Primer for Infrastructure Works

AWAZECIVIL

REF: MNFG-AWZCVL-AWPRMPP-750-1023

THIS PRODUCT

AWAZEPRIME PIPRIME 100 is a solvent-base, fast-drying, asphaltic primer produced from selected petroleum asphalt and rapid drying solvents. It is ideal to use as a substrate primer for infrastructure pipelines and below-grade applications prior to the application of AWAZEL's PIPESHIELD, PIPESEAL, PIPEGUARD and FLASHGUARD membrane tapes. AWAZEPRIME PIPRIME 100 provides superior adhesion and resistance to water, moisture, and soil chemicals

USES & APPLICATIONS

- Substrate priming prior to the application of AWAZEL's pipe wrapping membrane tapes.
- Substrate priming prior to the application of AWAZEL's membranes and asphaltic products.

SUPPLY & PACKAGING

- 16 Kg Pails
- 4 Kg Tins

STORAGE & HANDLING

- All pails and tins should be stored in an upright position.
- All pails and tins should be kept away from flame sources in a properly ventilated space.

FEATURES & ADVANTAGES

- Fast drying and timesaving
- Improves the bond of AWAZEL's bituminous pipe wrapping membrane tapes
- Suitable for different substrates including metal and concrete
- Conforms to the requirements of ASTM D 41.

GENERAL INSTALLATION GUIDELINES

- Surface must be clean, dry, and free of oily or greasy substances.
- Prepare surfaces by removing all loose scale, debris, rust or other foreign matters using wire brush or grit blasting.
- Apply AWAZEPRIME PIPRIME 100 using brush or roller at an approximate rate: 0.2-0.3 kg/m² depending on the substrate's porosity an/or roughness.

HEALTH & SAFETY

- All safety measures should be taken into consideration before and during application.
- Fire extinguishers should be available in the site.
- Unwanted flame source should be kept away from site
- Labor should wear personnel protective gear such as gloves and goggles during application.



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AWAZEPRIME PIPRIME 100

Specialty Bituminous Primer for Infrastructure Works

AWAZECIVIL

REF: MNFG-AWZCVL-AWPRMPP-750-1023

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Saybolt Furol Viscosity at 25 °C, Seconds	25 – 125	ASTM D 88
Distillation: Distillate, volume % of primer: Upto 225 °C Upto 316 °C	35 (minimum) 65 (maximum)	ASTM D 402
Test on residue from distillation: Penetration at 25 °C, 0.1mm Solubility in trichloroethylene, %	20 - 50 99 (minimum)	ASTM D 5 ASTM D 2042
Water Volume, %	0.5 (maximum)	ASTM D 95
Flash Point (Tag open cup), °C	+27	ASTM D 3143
Dry film thickness	100- 120 microns (if applied at the rate 0.25 kg/m ²)	Drying time recorder and micrometer
Drying time, hours	2 - 3 (Drying time dependable to ambient temperature, type & porosity of pipe)	MRDD- 13 (97) (Drying time recorder)

NOTES:

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PIPESHIELD NR 16-750

Heavy Duty PVC-Backed, Self-Adhering Bitumen Pipeline Tape for Infrastructure Works

AWAZECIVIL

REF: MNFG-AWZCVL-PSHLDNR16-750-1023

THIS PRODUCT

PIPESHIELD NR 16-750 is a durable, long-service-life, cold applied self-adhering membrane tape with specially formulated rubberized bituminous compound, laminated to a tough and heavy-duty PVC Backing film. PIPE SHIELD NR 16-750 pipe-wrapping membrane tapes are used for a wide-range of applications within the civil engineering and infrastructure domain whether for protection of new pipelines or rehabilitation of aged pipelines: suitable for both manual and mechanical application methods. When installed properly, PIPE SHIELD NR 16-750 creates a long-service-life barrier against water, gases, vapour and Oxygen thus provides an outstanding protection against corrosion and rapid deterioration. PIPE SHIELD NR 16-750 is supplied in various widths to suit different projects' specifications and requirements.

USES & APPLICATIONS

- Wrapping and protection against corrosion for Infrastructure pipelines.
- Restoration of existing pipelines
- Protection of transition areas on pipelines below-ground or in emersed conditions.
- Protection of as bends, tees, flanges special sections.

SUPPLY & PACKAGING

Supplied in Rolls:

- Width: 50 mm, 100 mm, 150 mm, 225 mm
- Length: 10 m, 20 m

HEALTH & SAFETY

- All safety measures should be observed during installation
- Installation personnel should wear protective gear at all times during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Excellent puncture resistance.
- Excellent tensile strength properties
- Long shelf-life
- Fast installation with rapid adhesion onto primed pipes and substrates.
- Cold applied
- Excellent adhesion to concrete or steel substrates
- Excellent resistance to cathodic disbanding
- Compatible with common pipe coatings

TYPICAL INSTALLATION PROCEDURES

- Surface preparation: The surface must be clean and free of dirt, dust oil, grease.
- Prepare surfaces by removing all loose scale, debris, rust, or other foreign matters using wire brush or grit blasting.
- Apply a thin coat of AWAZEPRIME PIPRIME 100 to all surfaces to be wrapped at the recommended coverage rate and allow to dry.
- While aligning PIPE SHIELD NR 16-750 membrane over the substrate and directing the adhesive side towards the substrate, peel back the release film allowing approximately 200 mm - or as required – while pressing the membrane towards the substrate. It is preferred to use a neoprene roller to apply uniform pressure over the membrane.
- Apply the tape spirally with enough tension to make it conform to the pipe shape and adhere properly
- Overlap each turn by at least 25 mm (or 55% to achieve double thickness) or as per the project's specifications
- Irregular surfaces such as valves or flanges will require the use of a special mastic sealant like AWAZEJOINT PIPE MASTIC-C to fill the joints prior to applying the membrane.

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water
- Keep rolls in an upright position
- Do not stack more than 2 pallets.



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety

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TECHNICAL DATA SHEET

PIPESHIELD NR 16-750

Heavy Duty PVC-Backed, Self-Adhering Bitumen Pipeline Tape for Infrastructure Works

AWAZECIVIL

REF: MNFG-AWZCVL-PSHLDNR16-750-1023

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Tensile Strength, N/mm	18	ASTM D 638
Tear Strength, N strength, N/mm	>50	ASTM D 1004
Elongation at break, %	270	BS 2782 DIN 52123
Adhesion Peel strength, N/mm: To primed steel To self	5.0 5.5	ASTM D 1000
Impact strength, Nm	15	ASTM G 14
Dielectric strength, kV	>40	BS 2782
Water absorption, %	<0.2	ASTM D 570 ASTM D 5147
Water Vapor Transmission, g/m ² /24h	<0.4	ASTM E 96
Operating temperature, °C	-20 to +80	—
Insulation Resistance	10 ⁶ Megaohms/cm ²	—
Recommended Holiday Test Voltage: Single layer, kV Double layers, kV	10 15	—

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APPLICATION ATTRIBUTES

ATTRIBUTE	TYPICAL VALUE	TEST METHOD
Thickness, mm: Backing Adhesive Total	0.75 0.90 1.65	ASTM D 1000
Weight, Kg/m ²	1.9	UEAtc M.O.A.T. 31



This product is manufactured under ISO9001 /45001 /14001 management systems for Quality, Environment, Health & Safety



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AWAZEPROTECT PIPE 100

High Performance External Pipe Protection Coating for Civil Engineering Works

AWAZECIVIL

REF: MNFG-AWPRTCT-PIPE100-0523

THIS PRODUCT

AWAZEPROTECT PIPE 100 is a cold-applied bitumen compound line of products formulated to provide long service life protection for concrete pipes, steel pipes, valves, and vessels against the consequential corrosive damaging effects of aggressive salts. AWAZEPROTECT PIPE 100 protects pipes in CUI (Corrosion Under Insulation) conditions against moisture build up on the external surface of the pipe that may lead to galvanic, chloride, acidic, or alkaline corrosion thus reducing piping maintenance cost or facility closure. AWAZEPROTECT PIPE 100 is supplied in two forms fast-drying (FD) and slow-drying (SD) to serve the different purposes of pipe protection in either offshore or coastal environments with hot or humid weather.

USES & APPLICATIONS

Protecting pipes, insulated equipment or uninsulated equipment made of:

- Concrete
- Carbon steel
- Stainless steel
- Aluminium

SUPPLY & PACKAGING

- 180 Kg drums
- 18 Kg pails

CONSUMPTION

- 0.5- 1.0 kg/m²

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at an a temperatures between 10~30°C.
- Avoid storing material for long periods in direct sunlight.
- Ensure product containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.

FEATURES & ADVANTAGES

- High resistance to chemicals
- Simple and easy application
- Excellent adhesion to concrete and metal substrates
- Excellent protection against corrosive effects
- Very effective on irrigation pipes
- Two types available; fast drying and slow drying

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION

- The surfaces should be cleaned thoroughly and should be dried before applying AWAZEPROTECT PIPE 100.
- Any loose or unsound coating shall be removed
- All loose scale and foreign matter including dirt, oil, grease, and water shall be removed
- All edges surrounding the exposed steel shall be bevelled by rasping, scraping or grinding
- Exposed steel shall be prepared by solvent cleaning and wire brushing to Class Sa2 of AS 1627.2.
- Where required surfaces shall be prepared by power-tool cleaning to Class Sa2 of AS 1627.2. Power-tool cleaning is appropriate when a higher quality surface preparation grade is required and when blast cleaning impractical.

STIRRING

- Material shall be stirred adequately for a minimum of 3 minutes by a slow-speed drill (300 rpm – 400 rpm) prior to application.

APPLICATION

- AWAZEPROTECT PIPE 100 can be applied by brush or spray equipment at the recommended consumption rate (consumption may vary depending on substrate type and condition)
- The consistency may increase when the material is in use due to the evaporation of the solvent.
- The original consistency can be re-established by the addition of AWAZEL SOLVENT or any other solvent as recommended by AWAZEL.



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AWAZEPROTTECT PIPE 100

High Performance External Pipe Protection Coating for Civil Engineering Works

AWAZECIVIL

REF: MNFG-AWPRTCT-PIPE100-0523

CHARACTERISTICS

PROPERTY	AWAZEPROTTECT PIPE 100 SD		AWAZEPROTTECT PIPE 100 FD		TEST METHOD
	minimum	maximum	minimum	maximum	
Saybolt Furol Viscosity at 25 °C, seconds	30	100	30	100	ASTM D 88
Drying time to touch, hours	3		2		MRDD-13(97)
Drying time to through, hours	24		24		MRDD-13(97)
Water Volume, %	Nil		Nil		ASTM D 95
Distillation, volume % of specimen	—	—	35	—	ASTM D 402
Upto 225°C					
Upto 360°C	—	—	—	65	
Test on residue from distillation:					
Penetration at 25°C, dmm	20	50	5	35	ASTM D 5
Solubility in trichloroethylene, %	99	—	99	—	ASTM D 2042

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HEALTH & SAFETY

- Care must be taken to ensure that there is adequate ventilation in the working place. Fires and naked flames should be kept at a distance.



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AWAZEJOINT PIPE MASTIC-C

Ductile Bituminous Mastic for Infrastructure Works

AWAZECIVIL

REF: MNFG-AWZCVL-PMSTCC-1023

THIS PRODUCT

AWAZEJOINT PIPE MASTIC-C is a trowel grade, solvent-base, non-setting, cold-applied mastic ideal to use for molding around irregular profiles of pipes such as flanges, mechanical joints and valves to provide a contour suitable for wrapping AWAZEL's PIPESHIELD, PIPESEAL & PIPEGUARD membrane tapes used for wrapping pipelines in infrastructure projects. AWAZEJOINT PIPE MASTIC-C is highly resistant to most chemicals present in the soil.

USES & APPLICATIONS

Seaming and molding around irregular profiles of pipes such as:

- Flanges
- Mechanical joints
- Valves
- Couplings

SUPPLY & PACKAGING

- 20 Kg Cardboard Boxes
- 8 Kg Cardboard Boxes

HEALTH & SAFETY

- AWAZEJOINT RB MASTIC is bitumen based and there is risk of cauterization in the event of contact with the eyes which may lead to dehydration and irritation in case of contact with skin.
- Application team must wear safety goggles and protective gloves.
- Splashes on the skin must be immediately washed off by water and detergents.
- Splashes to the eyes must be rinsed with clean and warm water.
- Seeking medical attention is highly recommended and mandatory.

FEATURES & ADVANTAGES

- Highly durable
- Continuously ductile
- Waterproof
- Resistant to salts and chemicals
- Suitable for different substrates including metal and concrete

GENERAL INSTALLATION GUIDELINES

- Surface must be clean, dry, and free of oily or greasy substances.
- Prepare surfaces by removing all loose scale, debris, rust or other foreign matters using wire brush or grit blasting
- Depending on substrate condition, a coat of AWAZEPRIME PIPE 100 maybe be required to prepare the substrate prior to the tooling of pipe wrapping membrane tapes.
- AWAZEJOINT PIPE MASTIC-C is a paste that could be applied by trowel, putty knife, scraper, or caulking gun.
- Apply AWAZEJOINT RB MASTIC into the joint firmly to ensure complete contact with the joint sides.
- Tools may be cleaned by using white spirit.

STORAGE & HANDLING

- Shelf life of 12 months in original unopened containers.
- Store in clean, dry, shaded and ventilated areas at a temperature between 5°C – 35 °C away from direct sunlight.



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AWAZEJOINT PIPE MASTIC-C

Ductile Bituminous Mastic for Infrastructure Works

AWAZECIVIL

REF: MNFG-AWZCVL-PMSTCC-1023

CHARACTERISTICS

PROPERTY	TYPICAL VALUE		TEST METHOD
	Minimum	Maximum	
Specific Gravity at 25 °C	1.3	1.6	ASTM D 70
Solid Content, % (Non-volatile matter)	65	—	ASTM D 4479
Colour	Grey, Black		Visual
Resistance to Salts & Acids	Excellent		Immersion
Adhesion to pipes	Excellent		Physical method
Flash point (COC) °C	>100		ASTM D 92
Recommended Primer	AWAZEPRIME PIPRIME 100		—

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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BINDERBOOSTER - ABB

Binder Rejuvenating Agent

AWAZECIVIL

REF: AWCVL-BBABB-JUL2022

THIS PRODUCT

AWAZECIVIL BINDERBOOSTER – ABB is a cold-applied rejuvenating agent used to restore and replenish asphalt pavement binder. AWAZECIVIL BINDERBOOSTER – ABB plays a major role in refurbishing the aged binders by restoring their colloidal balance through a gradual dispersion process leading to restoring their primary condition thus saving time and money for road pavement projects. AWAZECIVIL BINDERBOOSTER – ABB is not intended for use as a surface sealer nor as a crack filler.

USES & APPLICATIONS

AWAZECIVIL BINDERBOOSTER – ABB is suitable for the following applications:

- Rejuvenating existing and ageing pavement binders

FEATURES & ADVANTAGES

- Excellent rotational viscosity
- Environment friendly
- Fast to apply
- High resistance to water and moisture intrusion
- Resilient and durable
- Compatible with AWAZECIVIL CLEARBINDER – ACB

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION: Prior to application

- The surface should be dry and thoroughly cleaned.
- Any debris shall be removed by air-blowing or other approved suitable method.
- Oil and grease stains shall be removed using the recommended method by AWAZEL (water and soap).
- Substrate field tests should be conducted to the pavement binder concrete to measure the air voids percentage prior to the commencement of works.
- Once substrate is ready, AWAZECIVIL BINDER BOOSTER – ABB shall be poured uniformly over the substrate (one lane at a time, then followed by installation over adjacent lanes).
- While material is still wet, coloured aggregates could be broadcast over the area to absorb excess residue.
- Excess aggregates could be later removed using a brooming method.
- After application, protect from traffic flow until full dry to avoid adhesion to vehicle tires.

SUPPLY & PACKING

- 18 Kg pails
- 180 Kg drums
- Other larger bulk packaging upon request

STORAGE & HANDLING

- Material should be stored in a properly ventilated or shaded area.
- Material should be stored in shaded areas in their original packing.



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BINDERBOOSTER - ABB

Binder Rejuvenating Agent

AWAZECIVIL

REF: AWCVL-BBABB-JUL2022

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Rotational Viscosity at 25 °C, S4, 20 rpm	200 cP (max)	Brookfield ASTM D 4402
Particle charge	Positive	ASTM D 244
Storage ability, 24 hrs, %	1 (max.)	ASTM D 244
Residue by distillation, %	60 min.	ASTM D 244

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NOTE (2): AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

ATTRIBUTES

PROPERTY	ESTIMATE
Recommended application temperature	Ambient temperature
Application	Used as a stand-alone product
Coverage rate	Relative to substrate condition



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ASPHALTBOOSTER 100-B

Asphalt Rejuvenating Agent
(Formerly Known as AWAZEL AHYA)

AWAZECIVIL

REF: ACV-AA001-0123

THIS PRODUCT

ASPHALTBOOSTER 100-B is an environment-friendly, emulsified asphalt, rich in maltene and asphaltenes used for the rejuvenation of aging asphalt pavements and, consequently, enhancing their mechanical response properties. ASPHALTBOOSTER 100-B is a special formula designed to deplete the maltene in the bituminous binder to help restore the colloidal balance of maltene and asphaltenes by gradually penetrating the aged asphalt. The rejuvenated asphalt adds life to the pavement and provides a new black surface. ASPHALTBOOSTER 100-B is the base coat of AWAZECIVIL ASPHALTBOOSTER system for rejuvenating asphalt pavement. It must be used in conjunction with ASPHALTBOOSTER 100-T (Top Coat) and it is not intended for use as a crack nor surface treatment.

USES & APPLICATIONS

- Rejuvenation of ageing asphalt pavements.
- Prime coat prior to the application of crack-filling material.
- Prime coat prior to the application of surface-treatment material.

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at an a temperatures between 10~30°C.
- Avoid storing material for long periods in direct sunlight.
- Ensure product containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.

HEALTH & SAFETY

- Application personnel should wear protective gear and goggles at all times during application.
- In the event of contact with eyes, immediately flush with plenty of water for at least 15 minutes and call for medical practitioner.
- In event of contact with skin, wash skin thoroughly with plenty of water for at least 15 minutes
- For more information on safety measures consult the product's Material Safety Data Sheet.

FEATURES & ADVANTAGES

- Environment friendly
- Durable
- Easy to apply
- VOC compliant

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION: The surface of the pavement should be thoroughly cleaned.

- Tests should be carried out to determine the air voids percentage of the pavement asphalt concrete.
- The pavement which does not have more than 2 % air voids should not be treated.

APPLICATION: ASPHALTBOOSTER 100-B can be applied in concentrated form, or diluted by 50% clean water for higher coverage depending on substrate condition and requirements. Diluted form allows for deeper penetration.

- ASPHALTBOOSTER 100-B should be applied on one lane at a time.
- Depending on substrate condition apply ASPHALTBOOSTER 100-B using standard road slurry spray equipment at a coverage rate of 100 g/m² – 500 g/m²
- Allow to dry of 2 hours (dry-to-touch) then broadcast fine sand over the entire area to blot and absorb the residue on the surface that has not penetrated.
- Sand should then be removed afterwards by by air-blowing or brooming.
- Allow to dry out for 24 hours prior to opening the road for traffic.
- Apply the top coat (ASPHALTBOOSTER 100-T). Refer to the product's data sheet for more information.

EQUIPMENT CLEANING: clean equipment after application by a suitable solvent, gasoline or kerosine.

SUPPLY & PACKAGING

- 180 Kg drums
- 18 Kg pails



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ASPHALT BOOSTER 100-B

Asphalt Rejuvenating Agent
(Formerly Known as AWAZEL AHYA)

AWAZECIVIL

REF: ACV-AA001-0123

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Saybolt Furol Viscosity at 25 °C, Seconds	20 – 100	ASTM D 88
Volume Solid, %	>60	ASTM D 244
Storage Stability, 24 hours, %	Good	ASTM D 244
Flash Point	Non Flammable	ASTM D 92
Resistance to Salts & Acids	Excellent	Immersion
Compatibility with ASPHALT BOOSTER 100-T	Excellent	Physical method

NOTES:

- 1) Above values are subject to internationally recognized standards tolerance.
- 2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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ASPHALTBOOSTER 100-BS

Road Asphalt Rejuvenating Agent – Suitable for FOGSEAL Applications
(Formerly Known as AWAZEL AHYA)

THIS PRODUCT

ASPHALTBOOSTER 100-BS is an environment-friendly, emulsified asphalt, rich in maltene and asphaltenes used for the rejuvenation of aging asphalt pavements and, consequently, enhancing their mechanical response properties. ASPHALTBOOSTER 100-BS is a special formula designed to deplete the maltene in the bituminous binder to help restore the colloidal balance of maltene and asphaltenes by gradually penetrating through the aged asphalt. The rejuvenated asphalt adds life to the pavement and provides a new black surface. ASPHALTBOOSTER 100-BS is the base coat of AWAZECIVIL ASPHALTBOOSTER 200-BSTS system for rejuvenating asphalt pavements. It is also supplied in a low viscosity form or diluted with clean water to form a for FOGSEAL spray application. ASPHALTBOOSTER 100-BS must be used in conjunction with ASPHALTBOOSTER 100-TS (topcoat) and it is not intended for use as a crack sealer nor surface treatment. For crack sealing please refer to AWAZESEAL DRIVEWAY 1000 (Hot-Applied, Rubberized, SBS modified Asphalt Crack and Joint Sealer for Asphalt & Concrete Crack Repair applications). For road patching please refer to AWAZEPAVE ARP 1000 (Pre-blended Cold-Applied Asphalt Road Patching Material).

USES & APPLICATIONS

- Rejuvenation of ageing asphalt pavements.
- Prime coat prior to the application of crack-filling material.
- Prime coat prior to the application of surface-treatment material.

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at an a temperatures between 10~30°C.
- Avoid storing material for long periods in direct sunlight.
- Ensure product containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.



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AWAZECIVIL

ASPHALTBOOSTER 200-BSTS SYSTEM

REF: ACV-AA001-1124

FEATURES & ADVANTAGES

- Environment friendly
- Durable
- Easy to apply
- VOC compliant

SUPPLY & PACKAGING

- 180 Kg drums
- 18 Kg pails

HEALTH & SAFETY

- Application personnel should wear protective gear and goggles at all times during application.
- In the event of contact with eyes, immediately flush with plenty of water for at least 15 minutes and call for medical practitioner.
- In event of contact with skin, wash skin thoroughly with plenty of water for at least 15 minutes
- For more information on safety measures consult the product's Material Safety Data Sheet.

GENERAL APPLICATION GUIDELINES

SURFACE PREPARATION: The surface of the pavement should be thoroughly cleaned.

- Any cracks in the asphalt exceeding 2 mm in width should be treated by AWAZESEAL DRIVEWAY 1000 (Hot-Applied, Rubberized, SBS Modified Asphalt Crack and Joint Sealer for Asphalt & Concrete Crack Repair Applications)
- Tests should be carried out to as per the recommended methods by The Engineer to determine the air voids percentage of the pavement
- The pavement which does not have more than 2 % air voids should be treated prior to the application of ASPHALTBOOSTER 100-BS.



TECHNICAL DATA SHEET

ASPHALTBOOSTER 100-BS
ASPHALTBOOSTER 100-TS

ASPHALTBOOSTER 100-BS

Road Asphalt Rejuvenating Agent – Suitable for FOGSEAL Applications
(Formerly Known as AWAZEL AHYA)

- APPLICATION: Depending on the substrate condition and purpose of using the material, ASPHALTBOOSTER 100-BS may be applied in concentrated form or diluted form after mixing with 50% clean water for higher coverage and better penetration. Diluted form allows for deeper penetration through the substrate
- Whether in concentrated form or diluted form mix material thoroughly for 1 – 2 minutes with a slow-speed drill (300-400 rpm)
- ASPHALTBOOSTER 100-BS should be applied on one lane at a time.
- Apply ASPHALTBOOSTER 100-TS by roller or squeegee or spray equipment if in diluted form

- Depending on substrate condition at the time of application apply ASPHALTBOOSTER 100-BS using standard road slurry spray equipment at a coverage rate of 100 g/m² – 500 g/m²
- Allow to dry out for 2 - 12 hours (dry-to-touch) then broadcast fine sand over the entire area with high coverage enough to cover the surface to allow the sand to absorb the residue and provide a better bond between ASPHALTBOOSTER 100- BS and the topcoat (ASPHALTBOOSTER 100 - TS)
- Allow to dry out for 24- 48 hours prior to opening the road for traffic.
- ASPHALTBOOSTER 100-BS should be overcoated by ASPHALTBOOSTER 100-TS (topcoat)
- Please refer to ASPHALTBOOSTER 100-TS for more information.

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Saybolt Furol Viscosity at 25 °C, Seconds	20 – 100	ASTM D 88
Volume Solid, %	>60	ASTM D 244
Storage Stability, 24 hours, %	Good	ASTM D 244
Flash Point	Non Flammable	ASTM D 92
VOC, g/L	< 10	ASTM D 2369
Resistance to Salts & Acids	Excellent	Immersion
Compatibility with ASPHALTBOOSTER 100 TS	Excellent	Physical method

NOTES:

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ASPHALTBOOSTER 100-BS

Road Asphalt Rejuvenating Agent – Suitable for FOGSEAL Applications
(Formerly Known as AWAZEL AHYA)

THIS PRODUCT

ASPHALTBOOSTER 100-BS is an environment-friendly, emulsified asphalt, rich in maltene and asphaltenes used for the rejuvenation of aging asphalt pavements and, consequently, enhancing their mechanical response properties. ASPHALTBOOSTER 100-BS is a special formula designed to deplete the maltene in the bituminous binder to help restore the colloidal balance of maltene and asphaltenes by gradually penetrating through the aged asphalt. The rejuvenated asphalt adds life to the pavement and provides a new black surface. ASPHALTBOOSTER 100-BS is the base coat of AWAZECIVIL ASPHALTBOOSTER 200-BSTS system for rejuvenating asphalt pavements. It is also supplied in a low viscosity form or diluted with clean water to form a for FOGSEAL spray application. ASPHALTBOOSTER 100-BS must be used in conjunction with ASPHALTBOOSTER 100-TS (topcoat) and it is not intended for use as a crack sealer nor surface treatment. For crack sealing please refer to AWAZESEAL DRIVEWAY 1000 (Hot-Applied, Rubberized, SBS modified Asphalt Crack and Joint Sealer for Asphalt & Concrete Crack Repair applications). For road patching please refer to AWAZEPAVE ARP 1000 (Pre-blended Cold-Applied Asphalt Road Patching Material).

USES & APPLICATIONS

- Rejuvenation of ageing asphalt pavements.
- Prime coat prior to the application of crack-filling material.
- Prime coat prior to the application of surface-treatment material.

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at an a temperatures between 10~30°C.
- Avoid storing material for long periods in direct sunlight.
- Ensure product containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.



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AWAZECIVIL ASPHALTBOOSTER 200-BSTS SYSTEM

REF: ACV-AA001-1124

FEATURES & ADVANTAGES

- Environment friendly
- Durable
- Easy to apply
- VOC compliant

SUPPLY & PACKAGING

- 180 Kg drums
- 18 Kg pails

HEALTH & SAFETY

- Application personnel should wear protective gear and goggles at all times during application.
- In the event of contact with eyes, immediately flush with plenty of water for at least 15 minutes and call for medical practitioner.
- In event of contact with skin, wash skin thoroughly with plenty of water for at least 15 minutes
- For more information on safety measures consult the product's Material Safety Data Sheet.

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION: The surface of the pavement should be thoroughly cleaned.

- Any cracks in the asphalt exceeding 2 mm in width should be treated by AWAZESEAL DRIVEWAY 1000 (Hot-Applied, Rubberized, SBS Modified Asphalt Crack and Joint Sealer for Asphalt & Concrete Crack Repair Applications)
- Tests should be carried out to as per the recommended methods by The Engineer to determine the air voids percentage of the pavement
- The pavement which does not have more than 2 % air voids should be treated prior to the application of ASPHALTBOOSTER 100-BS.



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TECHNICAL DATA SHEET

ASPHALTBOOSTER 100-BS
ASPHALTBOOSTER 100-TS

ASPHALTBOOSTER 100-BS

Road Asphalt Rejuvenating Agent – Suitable for FOGSEAL Applications
(Formerly Known as AWAZEL AHYA)

- APPLICATION: Depending on the substrate condition and purpose of using the material, ASPHALTBOOSTER 100-BS may be applied in concentrated form or diluted form after mixing with 50% clean water for higher coverage and better penetration. Diluted form allows for deeper penetration through the substrate
- Whether in concentrated form or diluted form mix material thoroughly for 1 – 2 minutes with a slow-speed drill (300-400 rpm)
- ASPHALTBOOSTER 100-BS should be applied on one lane at a time.
- Apply ASPHALTBOOSTER 100-TS by roller or squeegee or spray equipment if in diluted form

- Depending on substrate condition at the time of application apply ASPHALTBOOSTER 100-BS using standard road slurry spray equipment at a coverage rate of 100 g/m² – 500 g/m²
- Allow to dry out for 2 - 12 hours (dry-to-touch) then broadcast fine sand over the entire area with high coverage enough to cover the surface to allow the sand to absorb the residue and provide a better bond between ASPHALTBOOSTER 100- BS and the topcoat (ASPHALTBOOSTER 100 - TS)
- Allow to dry out for 24- 48 hours prior to opening the road for traffic.
- ASPHALTBOOSTER 100-BS should be overcoated by ASPHALTBOOSTER 100-TS (topcoat)
- Please refer to ASPHALTBOOSTER 100-TS for more information.

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Saybolt Furol Viscosity at 25 °C, Seconds	20 – 100	ASTM D 88
Volume Solid, %	>60	ASTM D 244
Storage Stability, 24 hours, %	Good	ASTM D 244
Flash Point	Non Flammable	ASTM D 92
VOC, g/L	< 10	ASTM D 2369
Resistance to Salts & Acids	Excellent	Immersion
Compatibility with ASPHALTBOOSTER 100 TS	Excellent	Physical method

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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ASPHALTBOOSTER 100-TS

Asphalt Pavement Rejuvenating Agent (Topcoat)

AWAZECIVIL

ASPHALTBOOSTER 200-BSTS SYSTEM

REF: ACV-AA001-1124

THIS PRODUCT

ASPHALTBOOSTER 100 TS is a superior quality, water based emulsified bitumen topcoat, used as part of AWAZECIVIL ASPHALTBOOSTER 200-TSBS asphalt pavement rejuvenation system which is designed to deplete the maltene in the bituminous binder to help restore the colloidal balance of maltene and asphaltenes by gradually penetrating the aged asphalt. The rejuvenated asphalt adds life to the pavement and provides a new black trafficable surface. ASPHALTBOOSTER 100-TS must be used as a topcoat in conjunction with ASPHALTBOOSTER 100-BS (base coat) to form a comprehensive, longer service life asphalt pavement rejuvenation application. When properly applied, ASPHALTBOOSTER 100-TS forms a seamless, durable, trafficable and UV resistant protective coating over ASPHALTBOOSTER 100-BS.

USES & APPLICATIONS

- Rejuvenation of ageing asphalt pavements.
- Top coat over ASPHALTBOOSTER 100 BS to prevent the tyres from slipping.
- To have an anti-skid capacity

SUPPLY & PACKAGING

- 180 Kg drums
- 18 Kg pails

STORAGE & HANDLING

- Containers should be kept properly stored indoor in a well ventilated area at an a temperatures between 10~30°C.
- Avoid storing material for long periods in direct sunlight.
- Ensure product containers are kept tightly sealed and avoid ingress of air and moisture.
- More detailed information can be obtained from MSDS.

FEATURES & ADVANTAGES

- UV Resistant
- Environment friendly
- Durable
- Easy to apply
- VOC compliant

GENERAL INSTALLATION GUIDELINES

- Following the application of ASPHALTBOOSTER 100-BS:
- Mix ASPHALTBOOSTER-TS with fine sand in 1:1 proportion
- Mix material well for 1 – 2 minutes with a slow-speed drill (300-400 rpm)
- Apply ASPHALTBOOSTER 100-TS by roller or squeegee
- Depending on substrate condition the theoretical consumption rate of ASPHALTBOOSTER 100-TS may vary between 500 g/m² – 1000 g/m²
- Allow to dry out for 24- 48 hours prior to opening roads for traffic.

HEALTH & SAFETY

- Application personnel should wear protective gear and goggles at all times during application.
- In the event of contact with eyes, immediately flush with plenty of water for at least 15 minutes and call for medical practitioner.
- In event of contact with skin, wash skin thoroughly with plenty of water for at least 15 minutes
- For more information on safety measures consult the product's Material Safety Data Sheet.



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TECHNICAL DATA SHEET

ASPHALTBOOSTER 100-BS
ASPHALTBOOSTER 100-TS

ASPHALTBOOSTER 100-TS

Asphalt Pavement Rejuvenating Agent (Topcoat)

AWAZECIVIL

ASPHALTBOOSTER 200-BSTS SYSTEM

REF: ACV-AA001-2224

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Brookfield Viscosity at 25 °C, RV4, 20 rpm, cP	< 5,000	ASTM D 4402
Density at 25 °C, g/cc	0.98 – 1.2	ASTM D 70
Storage Stability	Good	ASTM D 244
Volume Solids, %	>60	ASTM D 244
Flash Point	Non Flammable	ASTM D 92
VOC, g/L	< 10	ASTM D 2369
Resistance to Salts & Acids	Excellent	Immersion
Compatibility with ASPHALTBOOSTER 100 BS	Excellent	Physical method

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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CRACKSEAL - NAC

Non-Asphaltic, Cold Applied, Crack and Joint Sealant for Pavements

AWAZECIVIL

REF: AWCVL-CSNAC-JUL2022

THIS PRODUCT

AWAZECIVIL CRACKSEAL-NAC is a single-component, cold applied, non-bituminous crack sealer used for filling cracks and joints in pavements which may eventually appear in time after pavement construction. AWAZECIVIL CRACKSEAL-NAC is an ideal solution for extending the service life of standard pavements and/or pavements embellished with AWAZECIVIL CLEARBINDER- ACB. AWAZECIVIL CRACKSEAL-NAC is an easy to install pourable grade material that – once installed as recommended – provides an efficient protective barrier against the intrusion of moisture through the pavement cracks due to its resilience and binding strength.

USES & APPLICATIONS

AWAZECIVIL CRACKSEAL-NAC is suitable for the following applications:

- General crack and joint sealing for pavements
- Application-specific crack and joint sealing during and after the construction of pavement using AWAZECIVIL CLEARBINDER-ACB.

FEATURES & ADVANTAGES

- Highly elastic and flexible
- Stable at high and low pavement temperature conditions
- Excellent adhesion properties
- High resistance to water and moisture intrusion
- Resilient and durable
- Compatible with AWAZECIVIL CLEARBINDER-ACB

GENERAL INSTALLATION GUIDELINES

SURFACE PREPARATION

- The surface of cracks and joints should be dry and thoroughly cleaned from all debris using brush, air-blowing methods and other approved suitable means.
- Material should be stirred properly using a slow-speed drill (300 rpm) prior to application.
- Application: Once AWAZECIVIL CRACKSEAL- NAC is ready to use pour it inside the joint/crack consistently and uniformly to a level flush with the surface. Excessive material should be removed.

SPECIAL INSTRUCTIONS

- AWAZECIVIL CRACKSEAL- NAC should be poured uniformly from bottom to top while avoiding formation of entrapped air.
- Do not use when cracks/joints are wet or moist.
- Work should not start if rain is imminent or during dust storms.
- After application, protect from traffic flow until full dry to avoid adhesion to vehicle tires.

SUPPLY & PACKING

- 18 Kg Pails

STORAGE & HANDLING

- Material should be stored in a properly ventilated or shaded area.
- Pails should be stored in shaded areas in their original packing.



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CRACKSEAL - NAC

Non-Asphaltic, Cold Applied, Crack and Joint Sealant for Pavements

AWAZECIVIL

REF: AWCVL-CSNAC-JUL2022

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Rotational Viscosity at 25 °C, S4, 20 rpm	3000 cP (max)	Brookfield ASTM D 4402
Drying time (hours)	12	MRDD

*NOTE (1): The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.**NOTE (2): AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.*

ATTRIBUTES

PROPERTY	ESTIMATE
Recommended application temperature	Ambient temperature
Installation	Used as a stand-alone product
Coverage rate	relative to crack/joint depth and geometrics



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MARATHONSEAL 1000

Hot-Applied, Rubberized, SBS Modified Asphalt Crack and Joint Sealer
For Asphalt & Concrete Crack Repair applications

AWAZCIVIL

REF: AWCVL-M1000-OCT24

THIS PRODUCT

AWAZCIVIL MARATHONSEAL 1000 is a high performance, single component, solvent-free SBS modified asphalt-cement compound used for reliable pavement and road repair applications in civil engineering works. MARATHONSEAL 1000 is applicable over both asphalt and concrete to serve the purpose of long-lasting restoration of ageing substrates. Due to its high viscosity MARATHONSEAL 1000 acts as an excellent sealer for sealing the cracks in asphalt accommodating for projected longitudinal and transverse contractions and expansion movements.

USES & APPLICATIONS

Crack and joint sealing in:

- Highways
- Roads
- Bridges
- Airport runways
- Airport aprons
- Public asphalt paved areas
- Crack sealing after milling and before new asphalt overlay

SUPPLY & PACKAGING

- 12 - 13 Kg (Cardboard boxes).

HEALTH & SAFETY

- All safety measures should be observed during installation.
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation. For more information on safety measures consult the product's Material Safety Data Sheet.

STORAGE & HANDLING

Material should be kept in original packing in a properly ventilated shaded area.

FEATURES & ADVANTAGES

- Single component
- Solvent-free
- Durable & long service life
- Corresponds to internationally recognized standards
- Excellent adhesion strength
- High elasticity (expansion and contraction properties)
- Stable at high and low pavement temperature conditions
- Excellent barrier against sand and moisture infiltration

TYPICAL INSTALLATION PROCEDURES

- **HEATING:** Heat MARATHONSEAL 1000 in a hot oil jacketed boiler / kettle capable of constant mechanical agitation and equipped with a calibrated thermometer to monitor the heating temperature.
- Material shall be heated and maintained at the required application temperature for application. Prolonged heating and overheating above 180 °C should be avoided, as it may result in damaging the material.
- If overheating damage occurs, immediately drain out the material completely and refill with new material.
- **PREPARATION:** Prior to application, cracks and joints shall be routed to create a uniform and consistent reservoir for the sealant. Nominal dimensions vary between 1-2 cm wide x 1-2 cm deep (depending on treatment mandates). The crack should be thoroughly cleaned out internally and externally to remove any rubble or debris. In the event moisture is detected, the location must be thoroughly dried out prior to application. Work should not commence if rain or dust storms are imminent. In cold weather, pavement may be warmed up with a hot air lance. Sealing should not be done soon after rain when moisture remains in the cracks and joints.
- **SURFACE PREPARATION:** Prior to application, the surface of cracks and joints should be thoroughly cleaned from all debris and should be well dried.
- **APPLICATION:** The pavement temperature should be above 10 °C at the time of sealing. Pour the melted material into the crack or joint directly by means of hand-held pot, cone, nozzle, or wand applicator. Remove any excess of material to maintain a leveled pavement surface. MARATHONSEAL 1000 shall be applied evenly from bottom to top while avoiding formation of entrapped air.
- Protect from traffic flow until the sealant has cooled down and fully cured to avoid tackiness under traffic movement. Where traffic is critical for traffic movement, Portland cement powder may be broadcast over the application as a temporary protection under traffic movement.

TECHNICAL DATA SHEET

CONFORMS TO:

ASTM D 5078: Standard Specification for Crack Filler, Hot-Applied, for Asphalt Concrete and Portland Cement Concrete Pavements

ASTM D 5167: Standard Practice for Melting of Hot-Applied Joint and Crack Sealant and Filler for Evaluation

ASTM D 6690 Standard (Type I, II & III)

MARATHONSEAL 1000

AWAZECIVIL

Hot-Applied, Rubberized, SBS Modified Asphalt Crack and Joint Sealer
For Asphalt & Concrete Crack Repair applications

REF: AWCVL-M1000-OCT24

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Brookfield Viscosity @ 204 °C (399 °F)	< 100 poise	ASTM D 2669 ASTM D 4402
Softening Point	80 °C min.	ASTM D 36
Flow @ 60°C (140°F)	< 3.0 mm, 5h	ASTM D 5329
Cone Penetration @ 25 °C (77°F)	< 90 dmm max.	ASTM D 217
Ductility @ 25°C (77°F)	> 30 cm	ASTM D 113
Asphalt compatibility	Pass	ASTM D 5329
Resilience (Recovery)	> 60 % min.	ASTM D 5329
Recommended application temp.	180-204 °C (356 °F - 392 °F)	ASTM D 5167 ASTM D 5078
Maximum heating temp.	204 °C (392 °F)	ASTM D 6690

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
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COVERAGE

Varies according to crack width, depth, and geometry

CLEANING

Material can be removed from equipment and tools with any suitable solvent such as Gasoline or Kerosene

Warranty:

AWAZEL warrants that the product meets the applicable ASTM specifications at the time of delivery. While the material is installed at locations and conditions beyond our control, and while the installation method may vary from our recommended guidelines; therefore, AWAZEL shall not be responsible for any improper handling and installation of the product. AWAZEL warrants that the material is free-from-manufacturing defects upon delivery within a limited liability of replacing material non-conforming to manufacturing standards as stated herein. All claims must be made within three (3) months of the date of use. The material shall be installed and/or supervised by our certified installers Marathon Sealing FZE team to also cover extended warranties for specific projects. Please contact approved Marathon Sealing FZE Installer for their recommendations.



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AWAZEPAVE GRAVELSEAL 1000

Pavement Gravel Stabilization Binder

AWAZECIVIL

REF: MFNG-AWZPVSSL1000-0523

THIS PRODUCT

AWAZEPAVE GRAVELSEAL 1000 is a superior quality, water based emulsified bitumen, used for binding earth particles together. When properly applied AWAZEPAVE GRAVELSEAL 1000 forms a crust that strengthens the surface of the soil thus prevents the formation of sediments, dust and prevents erosion of the soil. AWAZEPAVE GRAVELSEAL 1000 is a cost-effective method of pavements and driveways surface stabilization when a full road system construction is not an option. AWAZEPAVE GRAVELSEAL 1000 does not contain chemicals that maybe hazardous to nature nor to human or animal life. It may be applied in multiple layers depending on the site condition and type of aggregates used.

USES & APPLICATIONS

Paving, soil stabilization and dust control in non-traffic areas such as:

- Pathways
- Sideroads
- Outdoor parking lots
- Tertiary gravel roads
- Stabilizing slopes and embankments Embankments

SUPPLY & PACKAGING

- 180 Kg drums
- Bulk

CONSUMPTION

- 1 L / m² / 2.5 cm

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water.
- Keep containers in an upright position

FEATURES & ADVANTAGES

- Environment friendly
- Cost-effective
- Fast to apply
- Durable and long service life features

GENERAL INSTALLATION GUIDELINES

- Ensure a proper distribution of aggregates with correct particle size
- Loosen the aggregate in the area to be treated
- Stir material well prior to application
- Apply AWAZEPAVE GRAVELSEAL 1000 at a rate of 1 liter/ m² /2.5 cm of pavement thickness
- Depending upon the type of equipment used this process maybe repeated two or possibly three times to ensure all the material has saturated the aggregate.
- Once the aggregate is treated with an adequate amount of the AWAZEPAVE GRAVELSEAL 1000 or as specified then level and compact.
- Do not apply when rain is imminent.

HEALTH & SAFETY

- All safety measures should be observed during installation.
- Installation personnel should always wear protective gear during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.



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AWAZEPAVE GRAVELSEAL 1000

Pavement Gravel Stabilization Binder

AWAZECIVIL

REF: MFNG-AWZPVESSL1000-0523

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Brookfield Viscosity at 25 °C, RV4, 20 rpm, cP	<2,000	ASTM D 4402
Density at 25 °C, g/cc	0.98 – 1.2	ASTM D 70
Storage Stability	Good	ASTM D 244
Volume Solids, %	>60	ASTM D 244

NOTES:

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2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

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ASPHALTPAVE CHIPSEAL 100

Asphalt Pavement Restoration System

AWAZECIVIL

REF: ACV-APV100-001-0523

THIS PRODUCT

ASPHALTPAVE CHIPSEAL 100 is a superior quality, water based emulsified bitumen, used for pavement surface treatment adding extensive protection to the surfaces of roads as a cost-effective and low-maintenance method of roads and driveways surfaces when milling is not an option. ASPHALTPAVE CHIPSEAL 100 is maybe applied in one or two layers, depending on pavement condition, over clean chipped aggregates.

USES & APPLICATIONS

- Restoration of ageing asphalt pavements

SUPPLY & PACKAGING

- 180 Kg drums
- Bulk

CONSUMPTION

- Depends on pavement condition

STORAGE & HANDLING

- Store in a dry place protected from sun, heat & water.
- Keep containers in an upright position

FEATURES & ADVANTAGES

- Highly durable
- Cost-effective
- Fast application reducing road closure
- Excellent moisture barrier for underlaying pavement
- Eliminates the requirement for crack sealing
- Environment friendly

GENERAL INSTALLATION GUIDELINES

- The pavement should structurally sound prior to the application of ASPHALTPAVE CHIPSEAL 100.
- The chip sealing process must be performed by an approved road contractor
- ASPHALTPAVE CHIPSEAL 100 is sprayed over the pavement using approved equipment.
- Followed by placing the aggregates
- Then compaction

HEALTH & SAFETY

- All safety measures should be observed during installation.
- Installation personnel should always wear protective gear during installation.
- For more information on safety measures consult the product's Material Safety Data Sheet.



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ASPHALTPAVE CHIPSEAL 100

Asphalt Pavement Restoration System

AWAZECIVIL

REF: ACV-APV100-001-0523

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Brookfield Viscosity at 25 °C, RV4, 20 rpm, cP	<2,000	ASTM D 4402
Density at 25 °C, g/cc	0.98 – 1.2	ASTM D 70
Storage Stability	Good	ASTM D 244
Volume Solids, %	>60	ASTM D 244

NOTES:

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PAVEMENTGUARD 40-BSR

Double Sided, Specialty Self-Adhesive Tape for Civil Works

AWAZECIVIL

REF: MFNG-PVMNTGUARD40-BSR-0324

THIS PRODUCT

PAVEMENTGUARD 40-BSR is a cold-applied, pressure-sensitive self-adhesive membrane tape designed for civil engineering discipline works where there is a requirement to establish bond between two different substrates such as road asphalt & concrete. PAVEMENTGUARD 40-BSR could also be used as a bonding agent tape between joints existing within paver lines in longitudinal directions of road asphalt above structure. Manufactured from a select blend of bitumen enriched with enhancing rubberizing elements & polymers, PAVEMENTGUARD 40-BSR is laminated with a siliconized release film from both sides to ease peel-and-stick applications on site.

USES & APPLICATIONS

Used as a bonding tape between concrete & pavement and the following applications:

- Highways
- Pavements
- Airfield runways and aprons
- Parking lots

SUPPLY & PACKAGING

- Thickness: 4.0 mm
- Roll width: 60, 120, 150, 200 mm
- Roll length: 10 m

FEATURES & ADVANTAGES

- Pressure-sensitive
- Fast and easy application
- Highly durable
- Long service-life
- Temperature tolerant
- Compatible with asphalt & concrete substrates
- Excellent adhesion properties
- Accommodates longitudinal and transverse joint movement
- Thermally stable at high temperature (120°C – 170°C)

GENERAL INSTALLATION GUIDELINES

- Pavement must be clean and dry prior to application
- Trim the edge of the pavement to a straight line
- Unroll PAVEMENTGUARD 40-BSR and align with the substrate
- Re-roll the tape after alignment
- Remove the release film from the lower side and apply physical pressure using a neoprene roller
- Keep the surface release film in place to maintain the cleanliness of the tape's surface until the next paving or casting works are due.
- Prior to executing the following pavement, remove the upper side's silicon release film
- Cast asphalt aligning with the tapes side and surface.



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PAVEMENTGUARD 40-BSR

Double Sided, Specialty Self-Adhesive Tape for Civil Works

AWAZECIVIL

REF: MFNG-PVMNTGUARD40-BSR-0324

TECHNICAL DATA

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness, mm	4.0	UEAtc M.O.A.T. 31
Nominal Unit Weight, kg/m ²	4.0	UEAtc M.O.A.T. 31
Coating Asphalt	SBS Modified Asphalt	-
Softening Point of Coating Asphalt, °C	>110	ASTM D 36
Elongation, %	>1,000	MRDD - 10 (97) UEAtc M.O.A.T. 31
Surfacing Material: Top & Bottom	Siliconized Film	-
Tape Width, cm	6, 12, 15 & 20	-
Roll Length, m	10	-

NOTES:

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL PG ASPHALT"

PG ASPHALT BINDER PMB 82

Performance Graded SBS Modified Asphalt Binder

Compliance: ASTM D 6373, AASHTO M 320

AWAZECIVIL

REF: DRAFT

THIS PRODUCT

AWAZECIVIL PG ASPHALT BINDER PMB 82 is AWAZEL's line of SBS modified asphalt binder designed to avoid potential consequential damages incurred to the asphalt due to pavement's temperature fluctuations such as fatigue, rutting (at high temperature of pavement), and thermal cracking (at low pavement temperature of pavement). Whether used in new pavement construction or maintenance of existing pavement; PG ASPHALT BINDER PMB 82 products deliver excellent results when mixed and laid properly according to specifications and municipal guidelines. PG ASPHALT BINDER PMB 82 meets HMA (Hot Mixed Asphalt) pavement and SHRP (Strategic Highway Research Program) performance parameters.

USES & APPLICATIONS

- New pavement construction
- Existing pavement maintenance
- Airfields runways
- Airfield taxiways

FEATURES & ADVANTAGES

- Excellent viscosity at high temperature
- Excellency dynamic shear
- Stable creep stiffness
- Minimal mass change

GENERAL INSTALLATION GUIDELINES

- PG ASPHALT BINDER PMB 82 products are designed to be mixed with aggregate at batching plants, transported to the job site, placed with a paver, and compacted following local authorities' guidelines.

SUPPLY & PACKAGING

- Bulk

STORAGE

- Preferred to store in tanks with agitation facility.



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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL PG ASPHALT"

PG ASPHALT BINDER PMB 82

Performance Graded SBS Modified Asphalt Binder

Compliance: ASTM D 6373, AASHTO M 320

AWAZECIVIL

REF: DRAFT

CHARACTERISTICS

PROPERTIES	NOMINAL VALUE			TEST METHOD
	PMB PG 82-10	PMB PG 82-16	PMB PG 82-22	
Flash Point (COC), minimum, °C	230	230	230	AASHTOT 48 ASTM D 92
Viscosity at 135 °C, maximum, mPa.s (cP)	3000	3000	3000	AASHTO T316 ASTM D 4402
Dynamic Shear (DSR), @ 82 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	1.0	1.0	1.0	AASHTO T315 ASTM D 7175
Elastic recovery @ 25 °C	80	80	80	AASHTO T301 ASTM D 6084
Storage stability, softening point difference of top and bottom, maximum, °C	3.0	3.0	3.0	ASTM D 5892 ASTM D 36
Rolling Thin Film Oven Test (RTFOT) Residue -ASTM D 2872				
Mass change, maximum, %	1.0	1.0	1.0	AASHTO T240 ASTM D 2872
Dynamic Shear (DSR) @ 82 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	2.20	2.20	2.20	AASHTO T315 ASTM D 7175
Pressure Aging Vessel (PAV) Residue at at 110 °C (AASHTO R28)				
Dynamic Shear (DSR), G*/sinδ, 8mm plate, at 10 rad/s, maximum kPa	5000 @ 40 °C	5000 @ 37 °C	5000 @ 34 °C	AASHTO T315 ASTM D 7175
Creep stiffness, s-value, at 60 s, max., Mpa	300 @ (0) °C	300 @ (-6) °C	300 @ (-12) °C	AASHTO T313 ASTM D 6648
Creep stiffness, m-value, at 60 s, minimum	0.300 @ (0) °C	0.300 @ (-6) °C	0.300 @ (-12) °C	AASHTO T313 ASTM D 6648
Direct Tension, Failure Strain, at 1.0mm/ min., minimum, %	1.0 @ (0) °C	1.0 @ (-6) °C	1.0 @ (-12) °C	AASHTO T314 ASTM D 6816

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AWAZESEAL DRIVEWAY 1000

Hot-Applied, Rubberized, SBS Modified Asphalt Crack and Joint Sealer
For Asphalt & Concrete Crack Repair applications

COMPLIANCE:

ASTM D 5078: Standard Specification for Crack Filler, Hot-Applied, for Asphalt Concrete and Portland Cement Concrete Pavements
ASTM D 5167: Standard Practice for Melting of Hot-Applied Joint and Crack Sealant and Filler for Evaluation
ASTM D 6690: Standard Specification for Joint & Crack Sealants, Hot-Applied, for Concrete & Asphalt Pavements

AWAZECIVIL

REF: MNFG-ASDW1000-270923

THIS PRODUCT

AWAZESEAL DRIVEWAY 1000 is a high performance, single component, solvent-free SBS modified asphalt-cement compound used for reliable pavement and road repair applications in civil engineering works. AWAZESEAL DRIVEWAY 1000 is applicable over both asphalt and concrete to serve the purpose of long-lasting restoration of ageing substrates. Due to its high viscosity AWAZESEAL DRIVEWAY 1000 acts as an excellent sealer for surface random cracks on asphalt accommodating for projected longitudinal and transverse contraction and expansion movements. AWAZESEAL DRIVEWAY 1000 seals longitudinal and transverse cracks up to 30 mm wide with a good 70% PCI at surrounding area.

USES & APPLICATIONS

Critical crack and joint sealing in:

- Highways
- Roads
- Bridges
- Airport runways
- Airport aprons
- Public asphalt paved areas
- Crack sealing after milling and before new asphalt overlay
- Crack and joint sealing on concrete slabs

SUPPLY & PACKAGING

14 Kg (Cardboard boxes)..

COVERAGE

Varies according to crack width, depth, and geometry

FEATURES & ADVANTAGES

- Single component
- Solvent-free
- Durable & long service life
- Excellent adhesion strength
- High elasticity (expansion and contraction properties)
- Stable at high and low pavement temperature conditions
- Excellent barrier against sand and moisture infiltration

TYPICAL INSTALLATION GUIDELINES

- **HEATING:** Heat AWAZESEAL DRIVEWAY 1000 in a hot oil jacketed boiler / kettle capable of constant mechanical agitation and equipped with a calibrated thermometer to monitor the heating temperature. Material shall be heated and maintained at the required application temperature for application. Prolonged heating and overheating above 180 °C should be avoided, as it may result in damaging the material. If overheating damage occurs, immediately drain out the material completely and refill with new material.
- **SURFACE PREPARATION (GENERAL):** Prior to application, the surface of cracks and dept of the joints should be thoroughly cleaned from all debris and foreign material that may affect the application.
- **PREPARATION FOR CRACK SEALING:** Prior to application, cracks and joints shall be routed to create a uniform and consistent reservoir for the sealant. Nominal dimensions vary between 1 - 2 cm wide x 1 - 2 cm deep (depending on treatment mandates). The crack should be thoroughly cleaned out internally and externally to remove any rubble or debris. In the event moisture is detected; the location must be thoroughly dried out prior to application. Work should not commence if rain or dust storms is imminent. In cold weather, pavement may be warmed not be done soon after rain when moisture remains in the cracks and joints.
- **PREPARATION FOR JOINT SEALING:** Joints shall be made good, clean by air blowing in preparation. AWAZEPAVE DRIVEWAY 1000 could be supplied in a low-viscosity formula upon request to seal joints between asphalt and concrete. When poured inside the joint – regardless of the joint depth – material shall self-level to form a consistent and durable sealing of the joint post curing.
- **APPLICATION:** The pavement temperature should be above 5°C at the time of sealing. Pour the melted material into the crack or joint directly by means of hand-held pot, cone, nozzle, or wand applicator. Remove any excess of material to maintain a leveled pavement surface. AWAZESEAL DRIVEWAY 1000 shall be applied evenly from bottom to top while avoiding formation of entrapped air. Protect from traffic flow until the sealant has cooled down and fully cured to avoid tackiness under traffic movement. Where time is critical for traffic movement, Portland cement powder may be broadcast over the application to help speed up curing and reopening of the road for traffic movement.



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المملكة العربية السعودية - الإمارات العربية المتحدة - الكويت - قطر - مصر

AWAZESEAL DRIVEWAY 1000

Hot-Applied, Rubberized, SBS Modified Asphalt Crack and Joint Sealer
For Asphalt & Concrete Crack Repair applications

COMPLIANCE:

ASTM D 5078 : Standard Specification for Crack Filler, Hot-Applied, for Asphalt Concrete and Portland Cement Concrete Pavements
ASTM D 5167 : Standard Practice for Melting of Hot-Applied Joint and Crack Sealant and Filler for Evaluation
ASTM D 6690 : Standard Specification for Joint & Crack Sealants, Hot-Applied, for Concrete & Asphalt Pavements

AWAZECIVIL

REF: MNFG-ASDW1000-270923

CHARACTERISTICS

PROPERTY	TYPICAL VALUE	TEST METHOD
Brookfield Viscosity @ 204 °C (399 °F)	< 100 poise	ASTM D 2669 ASTM D 4402
Softening Point	> 90 °C	ASTM D 36
Flow @ 60°C (140°F)	< 3.0 mm, 5h	ASTM D 5329
Cone Penetration @ 25 °C (77°F)	< 70 dmm	ASTM D 217
Asphalt compatibility	Pass	ASTM D 5329
Resilience (Recovery)	> 30 %	ASTM D 5329
Recommended application temp.	180-204 °C (356 °F - 399 °F)	ASTM D 5167 ASTM D 5078
Maximum heating temp.	204 °C (399 °F)	ASTM D 6690

NOTE: The above information are provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.
AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.

HEALTH & SAFETY

- All safety measures should be observed during installation
- Fire extinguishers should be kept nearby and handy on site.
- Installation personnel should wear protective gear at all times during installation. For more information on safety measures consult the product's Material Safety Data Sheet.

CLEANING

Material can be removed from equipment and tools with any suitable solvent such as Gasoline or Kerosene

STORAGE & HANDLING

Material should be kept in original packing in a properly ventilated or shaded area



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TECHNICAL DATA SHEET

Formerly Known as " CATIONIC (CRS, CMS & CSS) EMULSIONS"

AWAZEPAVE CATIONIC 2397

Rapid, Medium & Slow Setting Cationic Emulsions

Compliance: ASTM D 2397, MOT Specifications for Cationic Emulsified Asphalt 4.01 - 5

Compliance: SASO 2056

AWAZEPAVE

REF: MNFG-APAVECTNC-101024

THIS PRODUCT

AWAZEPAVE CATIONIC 2397 is a line of products of emulsified asphalt products designed to serve the purpose of construction and maintenance of pavements produced in three main grades "Rapid Setting", "Medium Setting" and "Slow Setting". The setting speed of any AWAZEPAVE CATIONIC 2397 is relative to atmospheric conditions at the time of construction.

USES & APPLICATIONS

AWAZEPAVE CATIONIC 2397 is used in the construction and maintenance of pavements where the Standard Practice of ASTM 3628 is specified for the following forms of the product:

- Tack coat (CRS)
- Seal coat (CRS)
- Surface hair crack treatment (CMS)
- Slurry seal form (CSS)
- For cold mix application (CMS)

HEALTH & SAFETY

- Personnel must wear protective gear during preparation and application.
- This product contains volatile solvents, Care must be taken to avail adequate ventilation during application.

THEORETICAL COVERAGE

- Depends on substrate condition

SUPPLY & PACKAGING

- 180 Kg drums
- 18 Kg Pails

FEATURES & ADVANTAGES

- Ideal for use in hot temperature conditions
- Seals narrow and hair cracks against moisture penetration
- Prevents slippage plane between layers
- Provides a strong bond with new asphalt lift when applied on existing asphalt
- Does not track under construction traffic

GENERAL INSTALLATION GUIDELINES

- Design Considerations: Designs should be thoroughly studied prior to initial production especially when aggregate sources have changed.
- Testing of the final product is highly recommended to ensure a quality seal.
- Surface Preparation: The area to be covered by AWAZEPAVE CATIONIC2397 must be cleaned and broomed to remove dirt, debris, tree leaves and other elements that may affect the application.
- Application: AWAZEPAVE CATIONIC 2397 shall be applied by a spray bar at an application temperature varying between 20 °C – 70 °C.
- CRS grade should never be diluted with water
- CMS & CSS grades maybe diluted with clean water

STORAGE

- Store in well ventilated storage areas
- AWAZEPAVE CATIONIC 2397 is non-flammable material.
- Keep in airtight containers.



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TECHNICAL DATA SHEET

Formerly Known as " CATIONIC (CRS, CMS & CSS) EMULSIONS"

AWAZEPAVE CATIONIC 2397

Rapid, Medium & Slow Setting Cationic Emulsions

Compliance: ASTM D 2397, MOT Specifications for Cationic Emulsified Asphalt 4.01 - 5

Compliance: SASO 2056

AWAZEPAVE

REF: MNFG-APAVECTNC-101024

CHARACTERISTICS

PROPERTIES	NOMINAL VALUE												TEST METHOD	
	CRS-1		CRS-2		CMS-2		CMS-2h		CSS-1		CSS-1 h			
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		
Soybolt Furol viscosity seconds at: 25 °C 50 °C	- 20	- 100	- 100	- 400	- 50	- 450	- 50	- 450	20 -	100 -	20 -	100 -	ASTM D 244 ASTM D 88	
Storage Stability test, 24 hours, %	-	1	-	1	-	1	-	1	-	1	-	1	ASTM D 244	
Cooling ability and water resistance distillation: Coating, dry aggregate Coating, after spraying Coating, wet aggregate Coating, after spraying	-	-	-	-	Good	Good	-	-	-	-	-	-	ASTM D 244	
Particle charge test	Positive		Positive		Positive		Positive		Positive		Positive		ASTM D 244	
Cement Mixing test, %	-	-	-	-	-	-	-	-	-	2.0	-	2.0	ASTM D 244	
Sieve test, %	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	ASTM D 244	
Oil distillation, Distillate by volume of emulsion, %	-	3	-	3	-	12	-	12	-	-	-	-	ASTM D 244	
Residue by distillation, %	60	-	65	-	65	-	65	-	57	-	57	-	ASTM D 244	
Tests on residue from distillation: Penetration at 25 °C, 0.1 mm Ductility at 25 °C, cm	100	250	100	250	100	250	40	90	100	250	40	90	ASTM D 5	
	40	-	40	-	40	-	40	-	40	-	40	-	ASTM D 113	
Solubility in trichloroethylene, %	97.5	-	97.5	-	97.5	-	97.5	-	97.5	-	97.5	-	ASTM D 2042	

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TECHNICAL DATA SHEET

Formerly Known as "AWZEL PG ASPHALT"

PG ASPHALT BINDER PMB 76

Performance Graded SBS Modified Asphalt Binder

Compliance: ASTM D 6373, AASHTO M 320

AWAZECIVIL

REF: DRAFT

THIS PRODUCT

AWAZECIVIL PG ASPHALT BINDER PMB 76 is AWAZEL's line of SBS modified asphalt binder designed to avoid potential consequential damages incurred to the asphalt due to pavement's temperature fluctuations such as fatigue, rutting (at high temperature of pavement), and thermal cracking (at low pavement temperature of pavement). Whether used in new pavement construction or maintenance of existing pavement; AWAZECIVIL PG ASPHALT BINDER PMB 76 products deliver excellent results when mixed and laid properly according to specifications and municipal guidelines. AWAZECIVIL PG ASPHALT BINDER PMB 76 meets HMA (Hot Mixed Asphalt) pavement and SHRP (Strategic Highway Research Program) performance parameters.

USES & APPLICATIONS

- New pavement construction
- Existing pavement maintenance
- Airfields runways
- Airfield taxiways

FEATURES & ADVANTAGES

- Excellent viscosity at high temperature
- Excellency dynamic shear
- Stable creep stiffness
- Minimal mass change

GENERAL INSTALLATION GUIDELINES

- AWAZECIVIL PG ASPHALT BINDER PMB 76 products are designed to be mixed with aggregate at batching plants, transported to the job site, placed with a paver, and compacted following local authorities' guidelines.

SUPPLY & PACKAGING

- Bulk

STORAGE

- Preferred to store in tanks with agitation facility.



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TECHNICAL DATA SHEET

Formerly Known as "AWZEL PG ASPHALT"

PG ASPHALT BINDER PMB 76

Performance Graded SBS Modified Asphalt Binder

Compliance: ASTM D 6373, AASHTO M 320

AWAZECIVIL

REF: DRAFT

CHARACTERISTICS

PROPERTIES	NOMINAL VALUE			TEST METHOD
	PMB PG 76-10	PMB PG 76-16	PMB PG 76-22	
Flash Point (COC), minimum, °C	230	230	230	AASHTOT 48 ASTM D 92
Viscosity at 135 °C, maximum, mPa.s (cP)	3000	3000	3000	AASHTO T316 ASTM D 4402
Dynamic Shear (DSR), @ 76 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	1.0	1.0	1.0	AASHTO T315 ASTM D 7175
Elastic recovery @ 25 °C	80	80	80	AASHTO T301 ASTM D 6084
Storage stability, softening point difference of top and bottom, maximum, °C	3.0	3.0	3.0	AASHTO T315 ASTM D 7175
Rolling Thin Film Oven Test (RTFOT) Residue -ASTM D 2872				
Mass change, maximum, %	1.0	1.0	1.0	AASHTO T240 ASTM D 2872
Dynamic Shear (DSR) @ 76 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	2.20	2.20	2.20	ASTM D 5892
Pressure Aging Vessel (PAV) Residue at 110 °C (AASHTO R28)				
Dynamic Shear (DSR), G*/sinδ, 8mm plate, at 10 rad/s, maximum kPa	5000 @ 34 °C	5000 @ 31 °C	5000 @ 28 °C	AASHTO T315 ASTM D 7175
Creep stiffness, s-value, at 60 s, max., Mpa	300 @ (0) Oc	300 @ (-6) Oc	300 @ (-12) Oc	AASHTO T313 ASTM D 6648
Creep stiffness, m-value, at 60 s, minimum	0.300 @ (0) Oc	0.300 @ (-6) Oc	0.300 @ (-12) Oc	AASHTO T313 ASTM D 6648
Direct Tension, Failure Strain, at 1.0mm/ min., minimum, %	1 @ (0) Oc	1 @ (-6) Oc	1 @ (-12) Oc	AASHTO T314 ASTM D 6816

NOTES:

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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL PG ASPHALT"

PG ASPHALT BINDER PMB 82

Performance Graded SBS Modified Asphalt Binder

Compliance: ASTM D 6373, AASHTO M 320

AWAZECIVIL

REF: DRAFT

THIS PRODUCT

AWAZECIVIL PG ASPHALT BINDER PMB 82 is AWAZEL's line of SBS modified asphalt binder designed to avoid potential consequential damages incurred to the asphalt due to pavement's temperature fluctuations such as fatigue, rutting (at high temperature of pavement), and thermal cracking (at low pavement temperature of pavement). Whether used in new pavement construction or maintenance of existing pavement; PG ASPHALT BINDER PMB 82 products deliver excellent results when mixed and laid properly according to specifications and municipal guidelines. PG ASPHALT BINDER PMB 82 meets HMA (Hot Mixed Asphalt) pavement and SHRP (Strategic Highway Research Program) performance parameters.

USES & APPLICATIONS

- New pavement construction
- Existing pavement maintenance
- Airfields runways
- Airfield taxiways

FEATURES & ADVANTAGES

- Excellent viscosity at high temperature
- Excellency dynamic shear
- Stable creep stiffness
- Minimal mass change

GENERAL INSTALLATION GUIDELINES

- PG ASPHALT BINDER PMB 82 products are designed to be mixed with aggregate at batching plants, transported to the job site, placed with a paver, and compacted following local authorities' guidelines.

SUPPLY & PACKAGING

- Bulk

STORAGE

- Preferred to store in tanks with agitation facility.



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TECHNICAL DATA SHEET

Formerly Known as "AWAZEL PG ASPHALT"

PG ASPHALT BINDER PMB 82

Performance Graded SBS Modified Asphalt Binder

Compliance: ASTM D 6373, AASHTO M 320

AWAZECIVIL

REF: DRAFT

CHARACTERISTICS

PROPERTIES	NOMINAL VALUE			TEST METHOD
	PMB PG 82-10	PMB PG 82-16	PMB PG 82-22	
Flash Point (COC), minimum, °C	230	230	230	AASHTOT 48 ASTM D 92
Viscosity at 135 °C, maximum, mPa.s (cP)	3000	3000	3000	AASHTO T316 ASTM D 4402
Dynamic Shear (DSR), @ 82 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	1.0	1.0	1.0	AASHTO T315 ASTM D 7175
Elastic recovery @ 25 °C	80	80	80	AASHTO T301 ASTM D 6084
Storage stability, softening point difference of top and bottom, maximum, °C	3.0	3.0	3.0	ASTM D 5892 ASTM D 36
Rolling Thin Film Oven Test (RTFOT) Residue -ASTM D 2872				
Mass change, maximum, %	1.0	1.0	1.0	AASHTO T240 ASTM D 2872
Dynamic Shear (DSR) @ 82 °C, G*/sinδ, 25 mm plate, 1 mm gap, at 10 rad/s, min. kPa	2.20	2.20	2.20	AASHTO T315 ASTM D 7175
Pressure Aging Vessel (PAV) Residue at at 110 °C (AASHTO R28)				
Dynamic Shear (DSR), G*/sinδ, 8mm plate, at 10 rad/s, maximum kPa	5000 @ 40 °C	5000 @ 37 °C	5000 @ 34 °C	AASHTO T315 ASTM D 7175
Creep stiffness, s-value, at 60 s, max., Mpa	300 @ (0) °C	300 @ (-6) °C	300 @ (-12) °C	AASHTO T313 ASTM D 6648
Creep stiffness, m-value, at 60 s, minimum	0.300 @ (0) °C	0.300 @ (-6) °C	0.300 @ (-12) °C	AASHTO T313 ASTM D 6648
Direct Tension, Failure Strain, at 1.0mm/ min., minimum, %	1.0 @ (0) °C	1.0 @ (-6) °C	1.0 @ (-12) °C	AASHTO T314 ASTM D 6816

NOTES:

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TECHNICAL DATA SHEET

Formerly Known as "CUT-BACK ASPHALTS - RC (MOT)"

AWAZEPAVE CBA RC MOT

Rapid Curing Cut Back Asphalt (MOT)

Compliance: MOT ROAD & BRIDGE CONSTRUCTION SPECIFICATIONS TABLE 2, SECTION 4.0

AWAZEPAVE

REF: MNFG-CBARMOT-240924

THIS PRODUCT

AWAZEPAVE CBA RC MOT is a rapid curing, solvent-base, general purpose tacking and priming cut back asphalt binder suitable for the construction and maintenance of pavements. When applied as a tack coat, AWAZEPAVE CBA RC MOT helps promote the adhesion of the hot mix overlay to the base course. AWAZEPAVE CBA RC MOT is best applied with spray equipment designed for the application of bituminous material and should never be diluted with water or other additives. AWAZEPAVE CBA RC MOT meets the Saudi Ministry of Transport standard specification requirements.

USES & APPLICATIONS

- New pavement construction
- Existing pavement maintenance

HEALTH & SAFETY

- Personnel must wear protective gear during preparation and application.
- This product contains volatile solvents, Care must be taken to avail adequate ventilation during application.

THEORETICAL COVERAGE (As a TACK COAT)

- 0.25 Kg/m² depending on the porosity of the substrate.

FEATURES & ADVANTAGES

- Cold applied
- Does not require thinning or dilution with solvents

GENERAL INSTALLATION GUIDELINES

- Spray AWAZEPAVE CBA RC over asphalt or granular surfaces using truck-mounted spray equipment.
- The distribution truck must be equipped with a pressure pump meeting the requirements of spraying flammable material accompanied by calibrated consumption measuring meter.
- Allow to cure prior to casting the overlay
- It is recommended that users conduct trial runs prior to application to select the lowest possible temperature for the best application of the product.

SUPPLY & PACKAGING

- Bulk

STORAGE

- Store in well ventilated storage areas away from sunlight.
- AWAZEPAVE CBA RC is flammable material.
- Extreme caution should be taken while storing this product avoiding all potential sources of ignition.
- Fire extinguishers must be kept handy in accessible locations.
- Keep in airtight containers.



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TECHNICAL DATA SHEET

Formerly Known as "CUT-BACK ASPHALTS - RC (MOT)"

AWAZEPAVE CBA RC MOT

Rapid Curing Cut Back Asphalt (MOT)

Compliance: MOT ROAD & BRIDGE CONSTRUCTION SPECIFICATIONS TABLE 2, SECTION 4.0

AWAZEPAVE

REF: MNFG-CBARMOT-240924

CHARACTERISTICS

PROPERTIES	NOMINAL VALUE												TEST METHOD	
	RC - 0		RC - 1		RC - 2		RC - 3		RC - 4		RC - 5			
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		
Soybolt Furol viscosity seconds at: 25 °C	75	150	-	-	-	-	-	-	-	-	-	-	AASHTOT72	
50 °C	-	-	75	150	-	-	-	-	-	-	-	-	ASTM D 88	
60 °C	-	-	-	-	100	200	250	500	-	-	-	-		
82.2 °C	-	-	-	-	-	-	-	-	25	125	300	600		
Flash point (Tog open cup) °C	-	-	-	-	27	-	27	-	27	-	27	-	AASHTOT 79 ASTM D 3143	
Distillation: Distillate, volume % of total distillate to 360 °C														
to 19 °C	15	-	10	-	-	-	-	-	-	-	-	-	AASHTOT 78	
to 225 °C	55	-	50	-	40	-	25	-	8	-	-	-	ASTM D 402	
to 260 °C	75	-	70	-	65	-	55	-	40	-	25	-		
to 316 °C	90	-	88	-	87	-	83	-	80	-	70	-		
Residue from distillation to 360 °C, % (volume by difference)	50	-	6	-	67	-	73	-	78	-	73	-	—	
Tests on residue from distillation:	80	120	80	120	80	120	80	120	80	120	80	120	AASHTOT 49 ASTM D 5	
Penetration at 25 °C, 0.1 mm														
Ductility at 25 °C, cm	100	-	100	-	100	-	100	-	100	-	100	-	AASHTO T 51 ASTM D 113	
Solubility in trichloroethylene, %	99.5	-	99.5	-	99.5	-	99.5	-	99.5	-	99.5	-	AASHTOT 44 ASTM D 2042	

NOTES:

1) Above values are subject to internationally recognized standards tolerance.

2) The above information provided to the best of our knowledge at the time of manufacturing. Values may vary within tolerance due to raw material changes and/or unforeseen circumstances.

3) AWAZEL Company reserves the right to alter the product's specification without prior notice. Extra details maybe provided upon request.



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