

Technical Data Sheet

AWAZEL PY 40250 E

4 mm thick, APP modified bituminous membrane, reinforced with 250 g/m² non woven polyester mat, complies with the requirements of ASTM D 6222 Type I & II, Grade S & G, UEAtc MOAT 30, CGSB 37-GP-56M & DIN 52133

Description

High Performance APP modified bituminous membrane, reinforced with 250 g/m² non woven polyester mat. The polyester combines high tensile strength with an elongation above 40 %. The specially used polymer modifier has a great resistance to Ultra-Violet radiation.

Features

- Durable and easy to apply
- High flexibility at low temperature and stable at high temperature
- Remarkable resistance to aggressive attack of salts and chemicals
- High tensile strength and elongation
- Excellent tear and puncture resistance

Function

Used as double layers for tanking in basements or single or double layers for waterproofing of roofs. A single layer followed by a layer of mineral surfaced membrane (PY40250EM) should be used for exposed roofs.

Instructions for Application

The membrane can be installed fully bonded or loose-laid by torch welding. The substrate should be cleaned and primed with AWAZEL PRIMER D 41 and allowed to dry. 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. The heat of the gas flame should be applied to the 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 fully bonded. Upstands and flashings should be installed using 1 M wide pieces cut from the length of the roll. (The overlap joints should be 5 to 10 cm at the sides and 15 cm at the end)

Coverage

1.12 m per layer for flat surfaces

Health & Safety

All safety measures should be taken during application. Fire extinguishers should be available in the site. Labor should wear personnel protective tools such as gloves and goggles during application.

Packing

It is produced in rolls of 1 x 10 meters; The rolls are palletized and shrink-wrapped.

Surfacing

Standard surfacing is sand on top and fusible P.E. Film at bottom side. Different combination of to surfacing are available upon request such as PE Film, coloured minerals, etc...

Storage & Material Handling

The rolls should always be stored vertically in a shaded area. Normally the pallets should not be stacked one over the other. However, if a wooden board is used in between, two pallets may be stacked one over the other.

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TECHNICAL DATA

Properties	Typical Results	Test Method
Roll Size, m	10 x 1	UEAtc M.O.A.T. 30
Nominal Thickness, mm	4.0	ASTM D 5147 UEAtc M.O.A.T. 30
Nominal Unit Weight, kg/m ²	4.0	UEAtc M.O.A.T. 30
Carriers weight, g/m ² (polyester)	250	UEAtc M.O.A.T. 30
Coating Asphalt : Type	APP Modified Asphalt	
Softening Point (R&B), °C	155	ASTM D 36
Penetration at 25 °C, 0.1 mm	15 - 30	ASTM D 5
Tensile Strength, N/5cm	*	
Longitudinal	1,200	UEAtc M.O.A.T. 30
Transversal	1,000	ASTM D 5147
Elongation, %:	**	
Longitudinal	45	UEAtc M.O.A.T. 30
Transversal	50	ASTM D 5147
Tear Resistance, N :		
Longitudinal	500	ASTM D 5147
Transversal	450	ASTM D 4073
Lap Joint Strength, N/5cm		
Longitudinal	>1,200	UEAtc M.O.A.T. 30 & 27
Transversal	>1,000	
Load Strain Product:		
Longitudinal	54,000	CGSB-37 GP 56 M
Transversal	50,000	
Cold Flexibility at -5 to -10 °C	No Cracking	ASTM D 5147 UEAtc M.O.A.T. 30
Heat Resistance at 150 °C	No Flowing	ASTM D 5147 UEAtc M.O.A.T. 30
Resistance to Waterpressure, 2 bar (29 psi)	No Leakage	DIN 52123
Water Absorption, % (BSP)	<3.2	ASTM D 5147
Puncture Resistance	Static: L4 Dynamic : I4	UEAtc M.O.A.T. 27
Resistance to Aging after 2000 hours (Accelerated Weathering Tester)	No deterioration	ASTM D 4799

Note : The above shown technical data are typical results obtained, to the best of our knowledge, from our quality control records, extra details can be provided upon request

*. In accordance to the standard, a variation of 20 % is expected.

**. In accordance to the standard a variation of 15 % is expected.