

Technical Data Sheet

AWAZEL PYG 50 E

5 mm thick, APP modified bituminous membrane, reinforced with a combination of non woven Polyester and Glass Fiber mat, hot mix under layer complies with the requirements of ASTM D 6223 Type I & II, Grade S

Description

High Performance polymer (APP) modified bituminous membrane, reinforced with double carriers; a combination of non woven polyester mat and glass fiber mat. The polyester combines high tensile strength with an elongation above 50 % and the glass fiber provides dimensional stability. The specially used polymer modifier has a great resistance to Ultra-Violet radiation.

Features

- High flexibility at low temperature and stability at high temperatures
- Durable and easy to apply
- Remarkable resistance to aggressive attack of salts and chemicals
- Double reinforcement provides high tensile strength and dimensional stability.

Function:

Specially designed and manufactured as a single layer waterproofing membrane for reinforced concrete bridge decks. Also can be used for general waterproofing applications where impact resistance, toughness and dimensional stability required.

Instructions for Application

The substrate should be cleaned and primed with AWAZEL PRIMER D41 and allowed to dry. The membrane can be installed fully bonded or loose-laid by torch welding, as roof waterproofing. On concrete bridge decks, the membrane must be fully bonded to avoid wrinkling caused by heavy vehicle breaking on 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. The heat of the gas flame should be applied to the trowel. In loose-laid applications, only the lap joints 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 8 meters; The rolls are palletized and shrinkwrapped.

Surfacing

Surfaced with fusible P.E. Film at top and bottom sides.

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	8 x 1	ASTM D 5147 UEAtc M.O.A.T. 30
Nominal Thickness, mm	5.0	ASTM D 5147 UEAtc M.O.A.T. 30
Nominal Unit Weight, kg/m ²	5.0	UEAtc M.O.A.T. 30
Carriers weight, g/m ² : Polyester Glass Fiber	250 50.60	UEAtc M.O.A.T. 30
Coating Asphalt : Type Softening Point (R&B), °C Penetration at 25 °C, 0.1 mm	APP Modified Asphalt >155 20 – 35	ASTM D 36 ASTM D 5
Tensile Strength, N/5cm : Longitudinal Transversal	* 1,200 1,000	UEAtc M.O.A.T. 30
Ultimate Elongation, % : Longitudinal Transversal	** 45 50	UEAtc M.O.A.T. 30
Tear Resistance, N: Longitudinal Transversal	500 450	ASTM D 5147 ASTM D 4073
Lap Joint Strength, N/5cm Longitudinal Transversal	>1,200 >1,050	UEAtc M.O.A.T. 27 & 30
Load Strain Product: Longitudinal Transversal	54,000 50,000	CGSB-37 GP 56 M ASTM D 5147
Cold Flexibility at -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: L ₄ (Not punched at 25 kg load) Dynamic : I ₄ (Not perforated at 4-6 mm indenter)	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.*