



STRONG GOLD

App Modified Bitumen Membrane



Description:

STRONG GOLD is a high performance roofing membrane specially formulated and prefabricated waterproofing membrane composed of selected distilled bitumen modified with top quality polypropylene resin (APP+ IPP), antioxidant, but with double strong reinforcing of non-woven polyester carrier and fiberglass mat.

This extra strength can be considered of particular use in jobs subject to expansion and contraction and required heavy traffic resistance membranes.

It is to be noted that several international standards require double strong polyester and fiberglass mat reinforcement not because they are essential for waterproofing, the non-woven polyester carrier used in strong gold has excellent mechanical char which make the membrane absorb all the abnormal stresses transferred by the structure of the membrane it also helps against transportation bad handling shock.

Features:

- Resistance to ageing
- Stable at high temperatures
- Flexible at low temperatures
- Ideal for bridges and road waterproofing
- High resistant to traffic
- Strong adhesion
- Resistant to puncturing
- Resistant to organic salts and acids: inorganic acids and to dilute alkalis at ambient temperature

Application:

STRONG GOLD can be applied:

- By a propane torch
- By cold adhesive
- Mechanically fastened according to different recommended specifications, can be applied to the deck.
- Fully bonded
- Spot bonded
- Loose laid
- Starting at the low point of the roof surface, set the roll in the course to be followed and unroll half of the roll where practical. Position the membrane to provide a 10 cm side lap and a 10 cm end lap. Using the propane torch, the flame should be moved from side to side and the membrane slowly unrolled while pressing onto the underlying surface. As the surface of the roll is heated, it will develop sheen. The generation of heavy smoke is an indication that the surface is overheated.
- All roof decks must be smooth, moisture and dust free, asphalt primed.



Membrane Protection

AIWIN strongly advise that when the membrane is left directly exposed to the open air, a metallic or light colored paint must be applied to create an energy saving reflective surface.

Storage

STRONG GOLD must be correctly stored vertically in a dry location and to prevent their becoming deformed or damaged, all rolls must be stored on end and not double stacked.

Transportations

Handle with care avoiding overlapping or stacking of rolls / pallets.



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TECHNICAL SPECIFICATIONS

CHARACTERISTICS	STANDARD	VALUES	
		180g/m ² of polyester / + 80 g/m ² fibreglass	200g/m ² polyester / + 80 g/m ² fibreglass
ROLL DIMENSION	EN 1848-1	1 X 10m ± 1%	1 X 10m ± 1%
SURFACING	BS747	PE film or colored slates (white ,Gray,Red,Green) or Aluminum foil	
REINFORCEMENT	ASTM D 5147/ EN 1849-1	180g/m ² of polyester / + 80 g/m ² fibreglass	200g/m ² polyester / + 80 g/m ² fibreglass
THICKNESS ± 5%	ASTM D 5147	3,4,5 mm	3,4,5 mm
MEMBRANE WEIGHT	ASTM D 5147	3,4,5 Kg/m ²	3,4,5 Kg/m ²
PUNCTURE RESISTANCE @ N	ASTM D5	(Class L4) > 450 N	(Class L4) > 450 N
SOFTENING POINT °C	ASTM D 36	20 ±5	20 ±5
PENETRATION at 25°C, dmm	ASTM D 5147/ EN 1109	150 ±5	150 ±5
COLD FLEXIBILITY	ASTM D 5147/ EN 12311-1	- 8 °C	- 10 °C
TENSILE STRENGTH (L)	ASTM D 5147/ EN 12311-1	900 N/5 cm	1050 N/5 cm
TENSILE STRENGTH (T)	ASTM D 5147/ EN 12311-1	850 N/5 cm	1000 N/5 cm
ELONGATION (L)	ASTM D 5147/EN 12311-1	45%	50%
ELONGATION (T)	ASTM D 4073	45%	50%
TEAR STRENGTH (L)	ASTM D 4073	380 N	400 N
TEAR STRENGTH(T)	ASTM D 5385	340 N	360 N
HYDROSTATIC RESISTANCE	ASTM D 5147	Watertight after 24 hrs. under 6m of water	
WATER ABSORPTION	ASTM E 96	Less than 1%	Less than 1%
WATER VAPOR TRANSMISSION	EN 1107-1 / ASTM D 5147	≤0.5 g/m ² /24hr	≤0.5 g/m ² /24hr
DIMENSION STABILITY	EN 1110	Stable at 100°C	Stable at 100°C
FLOW RESISTANCE IN VERTICAL AT 90°C	ASTM D 4799	≤0.5 mm	≤0.5 mm
AGEING		No signs of deterioration	No signs of deterioration
VOC		<50 ppm	<50 ppm
CHEMICAL RESISTANCE	Membranes are resistance to chloride salts, sulphate and phosphate found in ground water		

This technical data complement to ASTM, B.S, and UEAtc.

This product data sheet supersedes all previous data publication pertaining to this product.

All values given refer to standard production within the usual factory tolerance.

(Variation of ±5% in thickness, ±10% in weight, and 20% in tensile and 15% in elongation is acceptable according to standard).

Aiwin reserve the right to change said values without advance notice but without affecting the quality of the product.



AIWIN

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