



GANDTEX

App Modified Bitumen Membrane



Description:

GRANDTEX is a high-performance prefabricated waterproofing membrane, specially formulated from selected distilled bitumen modified with Atactic Polypropylene (APP) thermoplastic polymers

The extra strength of **GRANDTEX** makes it particularly suitable for applications subject to expansion and contraction. It should be noted that several international standards require heavy 160 g/m² non-woven polyester reinforcement, not because it is essential for effective roofing, but due to its resistance to the high temperatures encountered during torch application.

Features:

- Resistant to ageing
- Stable at high temperature
- Strong adhesion to concrete substrate
- Chemically stable
- Resistant to tear and puncture
- Root proof
- Resistant to organic salt solutions, dilute acids, alkalis, sulfate and chloride
- Flexible at low temperature
- Compatible with most roofing products
- Flashing made on the spot by using same membrane
- Easy to apply
- Resistant to UV

Uses:

Waterproofing for Roofs, Retaining walls, Terraces, underground foundation, reservoirs, basins and canals.

Application Instruction:

- Surfaces onto which the membrane is to be applied must be sound, clean and dry. Dust, loose material and protrusions must be removed and cracks, holes etc made good.
- Priming: Apply one coat of **AIWIN PRIMER** or **AIWIN PASTA-3** to all surfaces and allow it to dry.

Membrane Application:

- Position the rolls carefully with the correct orientation before the torching operation begins. Heat the lower surface of the rolls with a propane gas torch and unroll as the bitumen begins to melt. Maintain minimum 10cm side laps and 10cm end laps between rolls, staggering the joints where possible. All seams must be heat sealed from the top to ensure watertight laps.
- The membrane may be loosely laid partially or fully bonded, depending on the Structure and specifications Storage and Material Handling
- The rolls should always be stored vertically in shaded area. normally the plates should not be stacked

Health & Safety

- Roofing torches have been successfully used for many years however since an open flame is present, fire extinguishers should be available in the site.
- labor should wear personal protective tools such as gloves and goggles during application



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TECHNICAL SPECIFICATIONS

CHARACTERISTICS	STANDARDS	VALUES
ROLL DIMENSION	ASTM D5147 / EN 1848-1	1 X 10m ± 1%
SURFACING		PE film or colored slates (White ,Gray,Red,Green) or Aluminum foil
REINFORCEMENT	ASTM D6222 / BS747	160g/m ² Polyester
THICKNESS ± 5%	ASTM D 5147 / EN 1849-1	3,4,5 mm
MEMBRANE WEIGHT	ASTM D 5147 / EN 1849-1	3,4,5 Kg/m ²
PUNCTURE RESISTANCE @ N	ASTMD 5147/EN12691	Not perforated at ≥25 kg Class L4
PENETRATION at 25°C, dmm	ASTM D 5 / EN 1426	20 ±5
SOFTENING POINT °C	ASTM D 36 / EN 1427	150 ±5
COLD FLEXIBILITY	ASTM D 5147 / EN 1109	-5°C
TENSILE STRENGTH(L)	ASTM D 5147 / EN 12311-1	500 N/5 cm
TENSILE STRENGTH(T)	ASTM D 5147 / EN 12311-1	380 N/5 cm
ELONGATION (L)	ASTM D 5147 / EN 12311-1	35%
ELONGATION (T)	ASTM D 5147 / EN 12311-1	38%
TEAR STRENGTH (L)	ASTM D 4073 / EN 12310-1	280 N
TEAR STRENGTH(T)	ASTM D 4073 / EN 12310-1	250 N
HYDROSTATIC RESISTANCE	ASTM D 5385/ EN 1928-1	Pass, watertight after 24 hrs. under 6m of water
WATER ABSORPTION	ASTM D1228/ EN 1928	Pass / less than 1%
WATER VAPOR TRANSMISSION	ASTM E 96 / EN ISO 12572	≤0.5 g/m ² /24hr
DIMENSION STABILITY	ASTM D 5147 / EN 1107-1	Stable at 100°C
FLOW RESISTANCE IN VERTICAL AT 90°C	ASTM D5147 / EN 1110	≤0.5 mm
AGEING	ASTM D 4799 / EN 1297	No signs of deterioration
VOC		< 150 ppm
CHEMICAL RESISTANCE	Membranes are resistance to chloride salts, sulphate and phosphate found in ground water	
REACTION TO FIRE	EN 13501-1	Euroclass F

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

Variation of ±5% in thickness, ±10% in weight, and 20% in tensile and 15% in elongation is acceptable according to ASTM and EN standards 13969
Aiwin reserve the right to change said values without advance notice but without affecting the quality of the product



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