



# GRANDTEX

## App Modified Bitumen Membrane



ISO 9001

### Description :

**GRANDTEX** is high performance prefabricated waterproofing membrane especially formulated and composed of selected distilled bitumen modified with Atactic Poly-propylene (APP), thermoplastic polymers.

**GRANDTEX** extra strength can be considered of particular use in jobs subject to expansion and contraction. It is to be noted that several international standard required heavy polyester reinforcement not because they are essential for good roofing, but because of their resistance to high torch application-temperature.

### 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, alkalies, sulfate and chloride
- flexible at low temperature
- compatible with most roofing product
- 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 to all surfaces and allow it to dry.
- **Membrane Application:**  
Position the rolls carefully with the correct orientation before the torching operation begin. 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 one over the other however ,if a wooden board is used in between ,two pallets may be stacked one over the other

### Health & Safety

- Roofing torches have been successfully used for many years how ever 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	STANDARD	VALUES
ROLL DIMENSION	UNI 8202/3	1X10m ± 1%
SURFACING		(Talc+burn-off film ) or colored slates
REINFORCEMENT	BS747	160g/m <sup>2</sup> Polyester
THICKNESS ±5%	UNI 8202/6 ASTM D5147	3,4,5 mm
MEMBRANE WEIGHT	UNI 8202/7	3,4,5 Kg/m <sup>2</sup>
STATIC PUNCHING STRENGTH	UNI 8202/11	not perforated at >25 Kg (Class L4)
PENETRATION at 25°C, dmm	ASTM-D5	20 ±5
SOFTENING POINT, °C	ASTM-D36	150 ±5
COLD FLEXIBILITY	UNI 8202/15	-5°C
TENSILE STRENGTH(LONGITUDINAL)	UN 8202/8	500 N/5 cm
TENSILE STRENGTH(TRANSVERSAL)	UN 8202/8	380 N/5 cm
ELONGATION( LONGITUDINAL)	UN 8202/8 ASTM-D146	35%
ELONGATION (TRANSVERSAL)	UN 8202/8	38%
TEAR STRENGTH (LONGITUDINAL)	UN 8202/9 ASTM-D4073	280 N
TEAR STRENGTH(TRANSVERSAL)	UN 8202/9	250 N
HYDROSTATIC RESISTANCE		Watertight after 24 hrs under 6m of water
WATER ABSORPTION	UN 8202/21 ASTM-D6222	Less than 1%
WATER VAPOR PERMEABILITY	ASTM-E 96	Absolutely impermeable
DIMENSION STABILITY	UN 8202/17	Stable at 100°C
FLOW RESISTANCE IN VERTICAL AT 90° C	UN 8202/16	≤0.5 mm
AGEING	ASTM-G53	No signs of deterioration
CHEMICAL RESISTANCE		Membranes are resistance to chloride salts, sulphate and phosphate found in ground water

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.

AIWIN reserves the right to change said values without advance notice but without affecting the quality of the product.