



# Torchply

## APP Modified Bitumen Membrane



### Description:

**TORCHPLY** is fiberglass reinforced waterproofing membrane especially formulated and composed of selected distilled bitumen modified with Atactic Polypropylene (APP), thermoplastic polymers

### Features:

- Resistance to ageing
- 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 alkalis.
- 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, and basement
- Suitable as a low cost membrane for many built-up roofing applications.
- Membrane that is inert and rot-proof for bonding with hot asphalt.  
Can be used alone for jobs that are not subject to big structural movement



### 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	STANDARDS	VALUES
ROLL DIMENSION	EN 1848-1	1 X 10m, 1 X 20m ± 1%
SURFACING		PE film
REINFORCEMENT	BS747	100g/m <sup>2</sup> fiber glass
THICKNESS ± 5%	ASTM D 5147 / EN 1849-1	3,4,5 mm
MEMBRANE WEIGHT	ASTM D5147	3,4,5 Kg/m <sup>2</sup>
PUNCTURE RESISTANCE @ N	ASTM D5147	(Class L4 ) > 450 N
PENETRATION at 25°C, dmm	ASTM D 5	20 ±5
SOFTENING POINT °C	ASTM D 36	150 ±5
COLD FLEXIBILITY	ASTM D 5147 / EN 1109	-2°C
TENSILE STRENGTH(L)	ASTM D 5147 / EN 12311-1	380 N/5 cm
TENSILE STRENGTH(T)	ASTM D 5147 / EN 12311-1	290 N/5 cm
ELONGATION (L)	ASTM D 5147 / EN 12311-1	3%
ELONGATION (T)	ASTM D 5147 / EN 12311-1	3%
TEAR STRENGTH (L)	ASTM D 4073	120 N
TEAR STRENGTH(T)	ASTM D4073	160 N
HYDROSTATIC RESISTANCE	ASTM D 5385	Watertight after 24 hrs under 6m of water
WATER ABSORPTION	ASTM D 5147	Less than 1%
WATER VAPOR TRANSMISSION	ASTM E96	≤0.5 g/m <sup>2</sup> /24hr
DIMENSION STABILITY	EN 1107-1 / ASTM D 5147	Stable at 100°C
FLOW RESISTANCE INVERTICAL AT 90°C	EN 1110	≤0.5 mm
AGEING	ASTM D 4799 / EN 1848-1	No signs of deterioration
VOC		50 ppm>
CHEMICAL RESISTANCE	Membranes are resistance to chloride,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.