

PROTECTOPLUS



Bituminous Protection Membrane

The Product

Protectoplus is an APP modified bituminous Prefabricated Protection membrane strengthened by Non-Woven Polyester mat. The multilayered structure with an exceptionally formulated Polymer modified bituminous Compound will provide high Puncture & Impact Resistance for water proofing system.

Standard Re-reinforcement of Protectoplus is **180g/m² Polyester mat.**

Features

- Superb Puncture Resistance.
- High Dimensional Stability.
- High Impact strength.
- Good Temperature performance.
- Resistance towards Salts and Water-borne chemicals.
- Rot Proof

Uses

Protectoplus is suitable for protection above waterproof in foundation walls, tunnels, bridge decks, parking garage, roof deck, terraces...Etc.

Standard Roll size : **1x10 Meter**

Nominal Membrane Thickness: **3, 4, 5 mm**

Surfaces

1. Top/Bottom: Polyethylene foil

Application

Protectoplus can be installed by applying heat through torching, mechanical fixing or by hot poured bitumen. At the time of torching for horizontal system, heating should be controlled by observing melting condition of the coated compound on the polyester mat. Excessive heat will cause polyester damage. Overlaps should be reheated from the top and sealed with a round tipped trowel to ensure watertight seam. For vertical system Protectoplus can be installed by using proper adhesive. Back filling or concreting should be done quickly after the installation of ProtectoPlus.

Storage & Handling

Protectoplus Rolls should be kept in upright position in a flat, dry, properly ventilated and sheltered storage area. Pallets should not be stacked on top of each other.

Health and Safety

Precaution should be taken by wearing goggles, safety shoes, leather gloves...Etc, at the time of application.

Fire extinguishers should be accessible at the construction site.

Sl.no	Properties	Specified value	Test Method
1.	Re-inforcement wt., gm/m ²	180	-----
2.	Puncture Resistance Static Dynamic	L4 I4	UEatc
3.	Puncture Resistance/32mm	1600	ASTM E 154
4.	Tensile Strength @ 25°C,N/5cm Longitudinal Transversal	950 700	UEatc, ASTM D5147
5.	Elongation @ 25°C,% Longitudinal Transversal	40 45	UEatc, ASTM D5147
6.	Tear Resistance Longitudinal Transversal	200 220	UEatc
7.	Lap joint strength,N/5cm Longitudinal Transversal	≥ 950 ≥ 700	UEatc
8.	Water absorption@ 23°C, 24hrs	≤ 0.50	ASTM D5147
9.	Softening Point, °C	150± 5	ASTM D36,UEatc
10.	Penetration@ 25°C	15± 5	ASTM D5,UEatc

Tolerance level 5-20% as per ASTM/UEatc Standard is applicable on tested values from specified values.

Manufactured by:

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