

MAXBOND PE

SELF-STICK MEMBRANE

About The Product

Maxbond PE is a SBS polymer modified bituminous waterproofing sheet with high tack self-adhesive underside that is protected with a tear resistant polyethylene sheet that allows for quick and easy release, once the membrane is aligned into place. Available in various thickness and finishing.

Maxbond PE - HDPE : Surface finished with HDPE for added puncture resistance, rodent-proof and anti-root capabilities.

Maxbond PE - POLY : Surface finished with polymer film or UV-resistant mineral slates with centrally embedded polyester carrier for use in underlay or single ply membrane system.

Design Features

- CE (European Conformity) manufacturing standard
- Equipped with rot proof and waterproof quick release sheet
- Fast and easy installation requiring no electrical equipment
- Suitable for direct application over XPS insulation boards
- Good tear and puncture resistance
- Resistant to chloride, diluted alkalis, sulphates and acids.
- High hydrostatic head resistance

It's Uses

- Basement slab over lean concrete
- Retaining wall
- Underground pull box and pipe jacketing
- Tunnel and trench tanking
- Landscape, planter box and roof garden
- RC flat roof and terrace deck
- Built-up roofing for steel & timber decks

Performance Data

Test	Standard	Maxbond PE (HDPE)*	Maxbond PE (POLY)*
Thickness	EN 1848-1	1.5 & 2.0 mm	1.5 & 2.0 mm
Surface finish	-	High-density polyethylene	Polymer film
Carrier	-	None	Polyester
Tensile Strength (M/T)	ASTM D412	2.0 / 1.8 N/mm ²	400 / 300 N/50mm
Elongation (M/T)	ASTM D412	350 / 400 %	45 / 45 %
Peel Adhesion Strength	ASTM D903	> 1,000 N/m	> 1,000 N/m
Hydrostatic Pressure	DIN 16726	No Leakage	No Leakage
Puncture Resistance	ASTM E154	200 N	150 N
Total Water Absorption	ASTM D570	< 1.0 %	< 1.0 %
Water Vapour Transmission	ASTM E96	1.1 g/m ² .day	1.3 g/m ² .day
Tear Strength (M/T)	ASTM D1004	15 / 12 N/mm	15 / 12 N/mm
T-Peel Resistance	ASTM D1876	> 7 N/cm	> 7 N/cm
Reaction to Fire	EN 13501-1	Euroclass E	Euroclass E

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Surface Preparation

The surface must be sound, clean and dry. Concrete must be fully cured and free of defects. Rough surfaces and sharp protrusion must be grinded smooth. Cement laitance, loose material, mildew, oil, grease etc. must be removed. Construct angle fillets at inside corners and round out external edges to prevent membrane fracture. Plywood and polystyrene boards to receive membrane must be dimensionally stable and level.

Priming

Concrete, sand-board, metal and pvc to receive Maxbond PE membrane must first be primed with Maxbond BT Primer at a rate of 6 to 8m² per liter. Let primer achieve touch-dry condition before application of membrane. Priming is not necessary for plywood and polystyrene.

The Installation

Maxbond PE Self-Stick Membrane should always be applied from the lowest point to prevent overlaps from trapping water. Align sheet in staggered layout with minimum 50mm side laps and 75mm end laps.

To install the membrane, roll back aligned sheets and peel off the release sheet protecting the adhesive base of the membrane. Pull the release sheet and let the roll move forward to overlap the adjacent sheet. Apply downward pressure on the membrane to achieve a good bond. Work the seams with a smooth roller to fuse the overlaps.

In vertical application, cut the membrane to shorter lengths to provide better handling. Reinforce inside and outside corners with a secondary strip of membrane. At critical areas like pipe penetrations, pile caps, gutters, etc, a 55% overlap may be adopted to ensure a double protection. Seal all terminations with Maxbond WP Mastic.

Protection

Maxbond PE POLY-AR is finished with UV-resistant mineral slate for exposed application. However, other variations like Maxbond PE HDPE or POLY must be protected with Maxbond ALU coating or other architectural finishes to provide complete protection against UV radiation. In below-grade or planter applications, protect the membrane from damage with mortar render, drainage layer or protective boards before backfilling.

Storage

Store rolls upright in a cool and dry space away from sunlight and UV radiation.

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Health & Safety

Heavy load: Transfer membrane roll with mechanical lifter or manually with multiple personnel.

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* Values are typical and not meant as performance benchmark.

