

Technical Data Sheet

Premseal 450 Membrane

High Performance Membrane for Waterproofing

Description: A woven polypropylene backing coated with a modified bituminous self-adhesive compound. Includes a release liner (interleaving), which is removed prior to use, for ease of application and handling.

Uses: Waterproofing in the construction industry when applied in accordance with BS 8102. For waterproofing of bridges, foundations, basements, roofs, decks, lift shafts, pits, service reservoir roofs, car parks, subways, bathrooms, balconies or trafficked structures where a high shear resistance is required.

Features:

- Sticks and bonds rapidly and permanently to clean, dry surfaces
- Fast and simple application
- No special tools, heating or drying required
- Flexible, long-lasting, self-sealing to minor substrate blemishes
- Can help prevent mould by sealing out moisture
- High puncture resistance and joint water pressure resistance
- Low water vapour transmission
- Withstands hot pours on roadways and car parks

Application: Ensure that the surface is free from dirt, dust and contamination, and if possible dry. Remove any loose material using a scrapper or wire brush. To promote adhesion in cold weather, it is preferable to warm up the tape to at least 15oC before application.

Unwind and cut membrane to required length. Peel back about 50 mm of the release liner and apply the product to the surface with firm pressure. Ensure intimate contact is made and that air is not trapped. Mould the membrane around bends and corner.

Using cloth or small roller, ensure that all edges and overlaps are forming proper seals and installed in a manner where they will be self-draining. Overlaps should be at least 25 mm.

Primer: Porous surfaces such as concrete or brick may be primed with Denso Primer D prior to application of the Premseal 450 Membrane. Always ensure volatile content of primer has evaporated before applying the membrane (dependent on ambient temperature, usually 10 to 20 minutes). Do not trap solvents between the tape and the surface being protected.

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Property
Specification:

| PROPERTIES | VALUE |
|---|--|
| Breaking Strength (ASTM D412) | ≥ 12.0 N/mm |
| Elongation at Break (ASTM D412) | 22 ± 3% |
| Adhesion Peel Strength (ASTM D1000, 24 h @23°C) | 4 N/mm |
| Puncture Resistance (ASTM E154, ASTM D1709) | 900 N |
| Water Vapour Resistance (ASTM E96) | 0.07 g/m ² .h |
| Permeance (Water Method) | 1.61 x 10 ⁻⁸ g/Pa.m ² .s |
| Hydrostatic Pressure Resistance of Waterproofing Membranes (ASTM D5385) | ≥ 655 kPa.h* |
| Application Temperature | 15°C to 45°C |
| Service Temperature | -10°C to 95°C |
| Peak Intermittent Temperature | 100°C # |
| Thickness (ASTM D751) | |
| - Backing | 0.30 mm |
| - Adhesive | 1.35 mm |
| - Total | 1.65 ± 0.15 mm |
| Width | 1025 mm |
| Length | 20 m |
| Weight (ASTM D751) | 1.75 ± 0.15 kg/m ² |
| Recommended Primer | Denso Primer D |
| Colour | Black |

* Failure of testing jig occurred before failure of membrane.

Polypropylene backing can withstand exposure to higher peak intermittent temperature in the application of asphalt paving.

STORAGE: In a cool, dry place, away from direct heat and sunlight.