

DENSOSEAL 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 15°C 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 Densoseal 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.



Densoseal 450 Membrane

Property Specifications

PROPERTIES	VALUE
Breaking Strength (ASTM D1000)	≥ 5.0 N/mm
Breaking Strength (ASTM D412)	≥ 12.0 N/mm
Elongation at Break (ASTM D1000)	50%
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
Impact Strength (ASTM G14, BGC/PS/CW2)	
Water Vapour Resistance (ASTM E96)	0.07 g/m ² .h
Permeance (Water Method)	1.61 x 10 ⁻⁸ g/Pa.m ² .s
Water Penetration Joint (MOAT 27.5.1.4)	Nil
Hydrostatic Pressure Resistance of Waterproofing Membranes (ASTM D5385)	≥ 655 kPa.h*
Dimensional Stability (MOAT 27.5.1.6)	
Longitudinal	-0.1%
Lateral	-0.2%
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	100 to 1000 mm
Length	20 m
Weight (ASTM D751)	1.75 ± 0.15 kg/m ²

*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.



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