

High performance waterproofing membrane for basements and structures

Uses

A high performance self adhesive membrane for a range of waterproofing applications including basements and substructures. Proofex 3000 provides a vapour and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts

Advantages

- Cross-laminated HDPE film for protection against damage
- Dimensionally stable
- Combines toughness with flexibility for detailing around corners
- Self adhesive layer system makes installation quick, simple and reliable
- Resistant to ground water, soluble sulphates and chlorides
- Suitable for waterproofing basements grades 2, 3 and 4 as defined in BS 8102: 1990, 'Protection Of Structures Against Water From The Ground

Description

Proofex 3000 is a cold applied, flexible, waterproof, high performance membrane incorporating a cross laminated HDPE carrier film with a polymer modified bitumen compound.

Proofex 3000 should be laid in accordance with the provisions of BS 8102:1990.

Where Proofex 3000 is being used as a floor DPM there, should be continuity with wall DPCs and other DPMs used in the structure. If methane presence is suspected, a comprehensive site survey needs to be carried out. Refer to Proofex 3000MR datasheet for further information.

Typical Properties

Membrane thickness :	1.5mm
Adhesion to primed concrete (ASTM D1000) :	4.9mm
Tensile strength (BS EN 12311-1)	
Longitudinal :	215 N/50mm
Transverse :	220 N/50mm
Elongation (BS EN 12311-1)	
Longitudinal:	324%
Transverse :	238%
Water vapour permeability (BS EN 1931) :	Impermeable to ISO 12572
Resistance to Hydrostatic head :	<u>Min</u> 60m (ASTM D 5385)

Application instruction

Preparation

All concrete surfaces must be a wood float or shutter finish and free from cavities or projections.

Masonry surfaces must be flush pointed.

All surfaces must be clean, dry and free from contamination, ice and frost.

Priming

Vertical and suspended slab surfaces shall be primed with Proofex Primer. Ensure complete coverage and allow to dry. Only prime an area to which the Proofex 3000 can be applied the same day. Very porous surfaces may require more than one coat of primer

Angle and corner details

Where possible, a 25mm chamfer should be provided to all external angles prior to application of the reinforcing strip.

Use Proofex Angle Fillet strips fixed using 6 mm beads of Plastiseal at all wall to floor junctions.

All internal and external angles should be reinforced with Proofex Engage Detail Strip or a 300 mm wide strip of Proofex 3000.

Application

Application temperature range 5°C to 35°C.

Vertical application: Cut the Proofex 3000 to length allowing 150 mm for the end laps and position by peeling back the release paper and applying the self adhesive face to the prepared surface.

Start at the top of the wall and work down by progressively removing the release paper in stages. Proofex 3000 should be applied to ensure that all end laps are weathered.

In cold weather temporary batten support of the Proofex 3000 membrane is recommended

Horizontal application

Completely unroll the Proofex 3000 membrane and place against a chalk line. One half of the roll should then be rolled up to the mid point, the release paper carefully cut, without damaging the Proofex 3000 membrane and progressively removed from the mid point out to the end of the roll.

Proofex 3000

This process should be repeated on the other half of the roll. The Proofex 3000 membrane should be brushed onto the surface to ensure good bonding.

The next roll or length is aligned against the previously applied piece allowing for the 50 mm minimum (or as specified) edge laps and 150 mm end laps and applied as stated previously. The edge and end laps should be rolled to ensure complete adhesion and continuity between the layers.

Penetrations

Penetrations e.g. pipe entries through the Proofex 3000 membrane require special attention to detail. Use of Proofex Top Hats is recommended and should be stuck to membrane using Proofex Total Tape and sealed to pipe with Nitoseal MS50

Protection

Proofex 3000 membrane should be protected from physical damage and weathering as soon as possible after application. Surfaces should be protected from damage by Proofex Protection Board.

Proofex 3000 can also be covered with Proofex Sheetdrain to give both protection and a drainage layer.

Ancillary Products

Proofex Protection Board

Bitumen impregnated board, designed to protect membranes from damage through backfilling and trafficking.

Proofex Engage Detail Strip

A reinforced, double sided waterproof adhesive tape for use as reinforcing at all floor and wall junctions. It consists of a strong synthetic fibre fabric impregnated and coated both sides with a butyl adhesive, which is protected by a removable siliconised paper.

Proofex Top Hat

MDPE sheathing, which encapsulates an aluminium foil layer. For use at service penetrations through Proofex 3000.

Proofex Angle Fillet

Strips fixed at all floor and wall junctions with a 6mm bead of Plastiseal.

Estimating

Proofex 3000

Roll size:	1 m x 20 m
Roll area:	20 m ²
Edge laps:	50 mm minimum
End laps:	150 mm minimum
Weight:	32kg

Proofex Primer

Coverage:	6 to 8 m ² /litre
Minimum installation temperature:	+5°C rising
Drying time @ 20°C:	1 to 2 hours
Pack size:	5 ltr and 25 ltr drums

Proofex Engage Detail Strip

Thickness:	1.5 mm
Roll size:	200 mm x 10 m

Proofex Protection Board

3 mm Thickness:	1000 mm x 2000 mm
Coverage:	2.0 m ²

Storage

Proofex 3000 has a shelf life of 12 months and must be stored in an upright position at a temperature between 5°C and 40°C.

Proofex Primer has a shelf life of 2 years.

Proofex 3000

Precautions

Health and safety

Each Proofex 3000 roll should be lifted by a minimum of two site operatives.

For information on Proofex Primer refer to Product Safety Data Sheet.

Proofex Primer is flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.

Flash Point

Proofex Primer:	>39°C
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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



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