

Fosroc® Proofex 3000MR

constructive solutions

High performance methane, radon and CO₂ resisting solar reflective waterproof membrane for basements and structures

Uses

A high performance self adhesive membrane for resisting methane, radon and CO₂, and preventing water entering buildings. Proofex 3000MR also provides a vapour and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts.

Advantages

- Aluminium film provides methane, radon and CO₂ resistance, protection against damage and gives dimensional stability
- Solar reflective finish reduces heat gain whilst membrane is exposed during construction.
- Combines toughness with flexibility for detailing around corners, pipes, etc.
- Self adhesive layer system makes installation quick, simple and reliable
- Resistant to ground water, soluble sulphates and chlorides
- Suitable for waterproofing basements grades 2 and 3 as defined in BS 8102 :2009, 'Protection Of Structures Against Water From The Ground'

Description

Proofex 3000MR is a cold applied, flexible, methane resisting and waterproof high performance membrane incorporating an aluminium layer and a polymer modified bitumen compound on a high strength polymer backing film.

Where methane, radon or CO₂ is present, a comprehensive site survey must be carried out and the building constructed accordingly. Refer to Building Research Establishment Report 212 and CIRIA Guide 149 for further information.


Proofex 3000MR should be laid in accordance with the provisions of BS 8102 :2009.

Standard compliance

Proofex 3000MR complies with EN 13707:2004 and EN 13969:2004.

Independently certified performance, BBA certificate (No. 09/4663).

Independently certified for solar reflectance index to ASTM E1980.

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Proofex 3000MR	
EN 13707:2004 and EN 13969:2004 Flexible sheets for waterproofing	
Thickness (EN1849-1)	1.2mm
Tensile Strength (EN 12311-1)	Long. 150 N/50 mm Trans. 150 N/50 mm
Elongation at Break (EN 12311-1)	Long. >20% Trans. >20%
Resistance to impact	NPD
Static load resistance (EN 12730)	Met. A 15 Kg Met. B 20 Kg
Tear Resistance (EN 12310-1)	Long. 70 N Trans. 70N
Impermeability (EN 1928)	≥ 60 Kpa
Vapour transmission rate (EN1931)	Sd ≥ 1500 m vapour impermeable

Properties

Radon Transmission Rate	0.47 x 10 ⁻⁹ m/s
Permeability to Radon Gas	0.56 x 10 ⁻¹² m ² /s
Permeability to Methane Gas	< 5 cc/m ² x 24h x atm
Application temperature	+ 5°C / + 45°C
Service temperature	- 40°C / +80°C
Adhesion to primed concrete (ASTM) D1000)	4.9 N/mm
Solar Reflectance Index (ASTM E1980)	103



Fosroc® Proofex 3000MR

Application instructions

Surface 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 or Nitobond HAR. Ensure complete coverage and allow to dry. Only prime an area to which the Proofex 3000MR can be applied the same day. Very porous surfaces may require more than one coat of primer.

Angle and corner details

Use Proofex Angle Fillet strips fixed using 6 mm beads of Nitoseal MB175 at all wall to floor junctions.

All internal and external angles should be reinforced with Proofex Detail Strip or a 300 mm wide strip of Proofex 3000MR. Where possible, a 25 mm chamfer should be provided to external angles.

Application

Application temperature range with Proofex Primer: 5°C to 35°C.

Application temperature range with Nitobond HAR: 10°C to 35°C.

Vertical application:

Cut the Proofex 3000MR 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 3000MR should be applied to ensure that all end laps are weathered.

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

Horizontal application:

Completely unroll the Proofex 3000MR 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 3000MR membrane and progressively removed from the mid point out to the end of the roll.

This process should be repeated on the other half of the roll. The Proofex 3000MR 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 3000MR membrane require special attention to detail. Proofex Top Hats are recommended and should be stuck to membrane using Proofex Total Tape and sealed to pipe with Nitoseal MS60.

Protection

Proofex 3000MR membrane should be protected from physical damage and weathering within 3 to 4 days after application. Surfaces should be protected from damage by Proofex Protection Board.

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

Backfilling

Backfill must be free from any sharp objects or debris which could damage the Protection/Proofex 3000MR. It should not contain any rocks or boulders larger than 50mm.

Backfilling should be carried out as soon as possible after application, preferably the same day.

Ancillary products

Proofex Protection Board

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

Proofex 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.

Proofex Angle Fillet

Strips fixed at all floor and wall junctions with a 6mm bead of Nitoseal MB175.

Fosroc® Proofex 3000MR

Estimating

Proofex 3000MR

Roll size:	1 m x 20 m
Roll area:	20 m ²
Edge laps:	50 mm minimum
End laps:	150 mm minimum
Roll weight:	25 kg

Proofex Primer

Coverage:	6 to 8 m ² /litre
Minimum installation temperature:	+4°C rising
Drying time @ 20°C:	1 to 2 hours
Pack size:	5 ltr and 25 ltr drums

Nitobond HAR

Coverage:	4 to 6 m ² /litre
Minimum installation temperature:	+10°C rising
Drying time @ 20°C:	2 hours (dependant on humidity)
Pack size:	1, 5 and 25 litres

Proofex 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 3000MR must be stored in dry conditions, away from sunlight, in an upright position at a temperature between 5°C and 40°C.

Proofex Primer has a shelf life of 2 years.

Nitobond HAR has a shelf life of 1 year.

Precautions

Health and safety

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

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