

FOSROC PROOFEX 3000 MR

High performance methane, radon and carbon dioxide resistant membrane

1. Product characteristics

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

- aluminum film provides methane, radon and CO₂ resistance, protection against damage and gives dimensional stability
- 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, 3 and 4 as defined in BS 8102:1990, „Protection Of Structures Against Water From The Ground“

2. Use

FOSROC PROOFEX 3000 MR is a cold applied, flexible, methane resisting and waterproof high performance membrane incorporating an aluminum 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. **FOSROC PROOFEX 3000 MR** should be laid in accordance with the provisions of BS 8102:1990.

3. Physical and mechanical parameters

Membrane thickness (mm)	1.2
Methane gas resistance (24 h bar)	<5cm ³ /m ²
Radon permeability (SP Sweden): (m ² /s)	0.56 10 ⁻¹²
Adhesion to primed concrete (ASTM D1000) (N/m)	4.9
Tensile strength (BS EN 12311 -1) (N/mm)	long.: 230 /50 trans.: 235 /50
Elongation (BS EN 12311-1)	long.: 33% trans.: 37%
Impermeability (BS EN 1928) (kPa)	≥ 60
Vapor transmission rate (BS EN 1931)	Vapor impermeable according to ISO 12572

4. Test certificates

Supervision of the quality system, EMS and OHSAS is carried out by Notified Body No. 1020.

5. Instruction for preparation and application

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 **FOSROC PROOFEX Primer**. Ensure complete coverage and allow to dry. Only prime an area to which the **FOSROC PROOFEX 3000 MR** 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 **FOSROC 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 **FOSROC PROOFEX Engage Detail Strip** or a 300 mm wide strip of **FOSROC PROOFEX 3000 MR**.

Application:

Application temperature range: 5°C to 35°C.

Vertical application: Cut the **FOSROC PROOFEX 3000 MR**, 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. **FOSROC PROOFEX 3000 MR** should be applied to ensure that all end laps are weathered. In cold weather temporary batten support of the **FOSROC PROOFEX 3000 MR** membrane is recommended.

Horizontal application: Completely unroll the **FOSROC PROOFEX 3000 MR** 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 **FOSROC PROOFEX 3000 MR** 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. **FOSROC PROOFEX 3000 MR** 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 **FOSROC PROOFEX 3000 MR**, membrane require special attention to detail. Use of **FOSROC PROOFEX Top Hat**, is recommended and should be stuck to membrane using **FOSROC PROOFEX Total Tape** and sealed to pipe with **Nitoseal MS50**.

Protection: **FOSROC PROOFEX 3000 MR** membrane should be protected from physical damage and weathering as soon as possible after application. Surfaces should be protected from damage by **FOSROC PROOFEX Protection Board**. **FOSROC PROOFEX 3000 MR** can also be covered with **FOSROC PROOFEX Sheetdrain** to give both protection and a drainage layer.

6. Ancillary Products

FOSROC PROOFEX Protection Board:

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

FOSROC 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 fiber fabric impregnated and coated both sides with a butyl adhesive, which is protected by a removable siliconised paper.

FOSROC PROOFEX Top Hat

MDPE sheathing, which encapsulates an aluminum foil layer. For use at service penetrations through **FOSROC PROOFEX 3000 MR**.

FOSROC PROOFEX Angle Fillet

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

7. Specific consumption, packing and storage

FOSROC PROOFEX 3000

Roll size: 1m x 20 m

Roll area: 20 m²

Edge laps: 50 mm minimum

End laps: 150 mm minimum

Weight: 25 kg

FOSROC PROOFEX Primer

Coverage: 6 to 8 m²/liter

Minimum installation temperature: +4 °C

Drying time at 20 °C: 1 to 2 hours

Pack size: 5 l and 25 l drums

Flash point: > 39 °C

FOSROC PROOFEX Engage Detail Strip

Thickness: 1.5 mm

Roll size: 200 mm x 10 m

FOSROC PROOFEX Protection Board

3 mm thickness: 1000 mm x 2000 mm

Coverage: 2.0 m²

Storage: **FOSROC PROOFEX 3000 MR** has a shelf life of 12 months and must be stored in an upright position at a temperature between 5°C and 40°C.

8. Health protection at work

Each **FOSROC PROOFEX 3000 MR** roll should be lifted by a minimum of two site operatives. For information on **FOSROC PROOFEX Primer** refer to Product Safety Data Sheet. **FOSROC 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.

9. Important notice

All information mentioned above, especially advice for processing and application of our products is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove, that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary



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