Fosroc® Proofex 3000

constructive solutions

High performance waterproofing and radon barrier membrane for basements and below ground structures

Uses

A high performance self adhesive membrane for a range of waterproofing and radon barrier applications including basements and substructures. Proofex 3000 provides a vapour, radon 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 sulfates and chlorides
- Radon protection as defined by BRE report 211.

Description

Proofex 3000 is a cold applied, flexible, waterproof, high performance Type A waterproofing barrier membrane, as defined in BS8102:2009, 'Protection Of Structures Against Water From The Ground'. It incorporates a cross laminated HDPE carrier film with a polymer modified bitumen compound.

For situations where ground gas protection is required refer to Proofex 3000MR data sheet for further information.

Standard compliance

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

Proofex 3000 complies with BRE 211.

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

Specification clause

The waterproofing membrane shall be Proofex 3000, BBA Certificate 09/4663, bonded to a prepared, smooth, void free substrate, primed with Proofex Primer. Installation shall be in accordance with the manufacturer's published instructions and the installed membrane shall be protected against damage with either Proofex Protection Board or Proofex Sheetdrain 80.

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Proofex 3000

EN 13707:2004 and EN 13969:2004
Flexible sheets for waterproofing

Thickness (EN1849-1)	1.5mm
Tensile Strength (EN 12311-1)	Long. ≥215 N/50 mm Trans. ≥220 N/50 mm
Elongation at Break EN 12311-1)	Long. ≥310% Trans. ≥240%
Resistance to impact (EN 12691)	Met. A ≥500 mm Met. B ≥1000 mm
Resistance to static load (EN 12730)	Met. A ≥10Kg Met. B ≥15Kg
Resistance to tearing EN 12310-1	Long. ≥135N Trans. ≥135N
Watertightness EN1928 (Method A)	Pass at 60 kPa over 24 hours
Water vapour transmission rate	9000μ

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 09/4663

Fosroc® Proofex 3000

Properties

Water absorption ASTM D570	0.09%
Watertightness EN1928 (Method B)	Pass at 6 bar (24 hours)
Application temperature	+ 5°C / + 45°C
Service temperature	- 40°C / +80°C
Peel adhesion to concrete (ASTM D1000)	2.9N/mm
Adhesion to self (ASTM D1000)	4.2N/mm
Radon permeability	5.7 x 10^{-12} m^2/s

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 and free of voids.

Steel surfaces to be free of rust and scale and prepared to S.a. 2.5.

All surfaces must be clean, sufficiently dry to prevent transfer of moisture and free from contamination, ice and frost.

Priming

All 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

A 40mm fillet should be formed at all internal angles using Proofex LM or Renderoc Plug 20.

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

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

Application

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

Vertical application: Cut the Proofex 3000 to length allowing 150 mm for end laps / 75mm for side 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.

Temporary batten, or other support of the Proofex 3000 membrane is required before backfilling.

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.

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 75mm minimum 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.

For deck waterproofing applications where the lapping arrangement results in a side lap detail / end lap detail interface apply a 10mm diameter bead of Nitoseal MB175 to seal the joint.

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 MS60. For more information see Fosroc Standard Drawings SAM19, 23 & 24.

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.

Backfilling

Backfill must be free from any sharp objects or debris which could damage the Protection/Proofex 3000. 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 Sheetdrain 80
Geocomposite HDPE drainage and protection membrane.

Proofex LM
A two component trowellable membrane for sealing around intricate details such as pipe entries, penetrations, pile caps etc.

Renderoc Plug 20
Rapid setting, cement-based,water-stopping mortar.

Fosroc® Proofex 3000

Nitoseal MB175
Rubber bitumen gun-applied sealant.

Proofex Detail Strip
A 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
Preformed pipe collar for use at service penetrations.

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

Estimating

Proofex 3000	
Roll size:	1 m x 20 m
Roll area:	20 m²
Edge laps:	75 mm minimum
End laps:	150 mm minimum
Weight:	32kg

Proofex Primer	
Coverage:	6 to 8 m²/litre
Minimum installation temperature:	+5°C rising
Drying time @ 20°C:	1 to 2 hours
Pack size:	5 ltr and 25 ltr drums

Proofex Detail Strip	
Thickness:	1.5 mm
Roll size:	200 mm x 10 m

Proofex Top Hat		
Diameter:	110mm	160mm
Flange size:	330mm x 330mm	380mm x 380mm

Proofex Protection Board	
3 mm Thickness:	1000 mm x 2000 mm
Coverage:	2.0 m²

Proofex Sheetdrain 80	
Roll size:	2.4 m x 20 m

For estimating guidance for other listed products refer to the relevant product data sheet.

Storage

Proofex 3000 has a shelf life of 12 months from date of manufacture and must be stored in an upright position at a temperature between 5°C and 35°C. Proofex Primer has a shelf life of 2 years.
The 25 litre tins of Proofex Primer should not be stacked more than 2 high.

Precautions

Health and safety

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

For information on all products refer to Product Safety Data Sheets available at www.fosroc.com.

Proofex Primer is flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO_2 or foam. Do not use a water jet.

Flash Point
Proofex Primer: >39°C

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