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 BS8102:2022, '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 the permeability requirements of BRE 211:2023 for radon protection.

Independently certified performance, BBA certificate (No. 22/6063)

Specification clause

The waterproofing membrane shall be Proofex 3000, BBA Certificate 22/6063, 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.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 22/6063

CE 1029 08 1029-CPR-GB19/964285	UKCA 0120 22 1029-CPR-GB08/75673
DOP: UK9-54	
Fosroc International Limited Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK	
Proofex 3000	
EN 13707:2013 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 (EN12691)	Met. A ≥ 500mm Met. B ≥ 1000mm
Static load resistance (EN 12730)	Met. A >10 Kg Met. B >15 Kg
Tear Resistance (EN 12310-1)	Long. > 135 N Trans. > 135 N
Watertightness (initial and after artificial ageing) (EN 1928:2000/ EN1928)	Method A: Pass at 60kPa over 24 hours.
Water vapour transmission properties (EN1931)	μ = 90000 ±30%
Flexibility at low temperatures (EN 1109)	<-30°C
Peel resistance of joints (EN 12316-1)	>100 N/50mm
Shear resistance of joints (EN 12317-1)	Long. 350N/50mm Trans. 350N/50mm
Resistance to flow at elevated temperature (EN 1110)	>80°C
Resistance to flow at elevated temperature after artificial ageing (EN 1296 / EN 1110)	>85°C
Reaction to fire (EN 13501-1)	Class E

Properties

Water absorption (ASTM D570)	0.09%
Watertightness (EN 1928: Method B)	Pass at 6 bar (24 hours)
Application temperature	+ 5°C / + 45°C
Service temperature	- 40°C / +80°C
Peel adhesion to primed concrete (ASTM D1000)	2.0 N/mm at 23°C
Radon permeability	5.7 x 10^{-12} m^2/s
Life expectancy (BS EN 13251:2016 and BS EN 13252:2016)	125 years

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 ST3 standard.

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

Priming

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. Application temperature range with Proofex Primer: 5°C to 35°C. For details about Proofex Primer SP supply and application, refer to the separate data sheet.

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

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 thesurface to ensure good bonding.

The next roll or length is aligned against the previously appliedpiece allowing for 75mm minimum edge laps and 150 mm endlaps and applied as stated previously. The edge and end laps should be rolled to ensure complete adhesion and continuitybetween the layers.

For deck waterproofing applications where the lapping arrangement results in a side lap detail / end lap detail interfaceapply a 10mm diameter bead of Nitoseal MS60 to seal the joint.

Penetrations

Penetrations e.g. pipe entries through the Proofex 3000 membrane require special attention to detail. Use of ProofexTop Hats is recommended and should be stuck to membraneusing 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 be a well graded material, not containing 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.

Fosroc® Proofex 3000

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 for forming fillets at internal angles.

Nitoseal MS60
Single component gun-applied sealant.

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
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 MS60.

Estimating

Proofex 3000

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

Proofex Primer

(Refer to separate data sheet for Proofex Primer SP)

Coverage:	6 to 8 m²/litre
Min Application Temp	+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 Proofex Primer SP and other ancillary items, refer to separate product data sheets.

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
Proofex Primer and Proofex Primer SP are 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

Proofex Primer SP: -35°C

**RR2S when used with Proofex Primer SP.

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