Fosroc®
Proofex® OFB

constructive solutions

Fleece-backed fully bonded synthetic TPO waterproofing membrane

Uses

Provides a fully bonded waterproof membrane system for building and civil engineering structures and is particularly suited to above ground applications.

- Podiums and flat / sloping roof waterproofing
- Green / garden roofing

Advantages

- Adhesion to common cementitious building materials
- High resistance to weathering and UV
- Resistance to root penetration
- Fast application
- Welded joints for maximum watertightness
- Excellent long term performance

Standards

Proofex OFB has been independently tested to comply with AS 4654.1-2012 as a Class III membrane - external/exposed.

The test report 272-2 is available from the Fosroc web site.

Description

Proofex OFB is a TPO/FPA (Thermoplastic Polyolefin Flexible Polypropylene Alloy) membrane produced by extrusion of granules resulting from the incorporation of ethylene propylene rubber into a polypropylene matrix together with other additives as appropriate to the type of membrane. A synthetic polyester fleece is attached to the bottom part of the membrane, leaving a selvedge on both sides for welding.

The membrane is manufactured in two different coloured layers, it is coloured with a grey layer on top and green layer on the underside. This helps to identify any damages that may occur during application.

Properties

Test	Test Standard	Result	Assesment
Thickness	(EN 1849-2):	1.5mm	
Colour:		Grey top/ Green underside	
Tensile strength Longitudinal: Transverse:	(EN 12311-2 B))	 17.4 N/mm^2 15.9 N/mm^2	
Elongation at break Longitudinal: Transverse:	(EN 12311-2 B)	 758% 741%	
Dynamic puncture resistance	(EN12691/B):	1800mm	
Water impermeability	(EN 1298):		Pass test
Water vapour transmission	(EN 1931 MET.B):	93460	Pass test
Tear resistance Logitudinal: Transversal:	(EN 12310-1:	 1024 N 933 N	
Lap joint strength (welded)	UEATc:	RT- broken out joint	Pass test
Hail resistance	(EN 13583):	29 m/s	
UV resistance:	(EN 1297):	2500 hrs no cracks	Pass
Resistance to Micro-organism	(EN 846 Liv2):		Pass, resistant

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AS 4654.1 Test Results

Test	Test Standard	Result	Assesment
Abrasion resistance - non trafficable:	AS1580.403.2	0.028mm	Meets requirement for non-trafficable membrane
Abrasion resistance - trafficable:	AS1580.403.2	0.085mm	Meets requirement for occasional and pedestrian traffic only
Bond strength	ASTM C794	52.14 N	
Cyclic movement:	AS 4654.1 App B	No failure observed	Pass
Dimensional stability:	ASTM D6207	No change in length	
Durability - control elongation at break	AS1145.3	1265%	Class III
Durability - control tensile strength	AS1145.3	8.97 MPa	
Durability - water immersion elongation at break:	AS4654.1	1269%	Pass
Durability - water immersion tensile strength:	AS4654.1	10.26 MPa	
Durability - detergent immersion elongation at break:	AS4654.1	1270%	Pass
Durability - detergent immersion tensile strength:	AS4654.1	8.89 MPa	
Durability - heat aging elongation at break:	AS4654.1	1271%	Pass
Durability - heat aging tensile strength:	AS4654.1	8.81 MPa	
Durability - UV exposure elongation at break:	AS4654.1	1251%	Pass
Durability - UV exposure tensile strength:	UV lamp	7.80 MPa	
Field seam strength:	AMTM005	378.72 N/25mm	
Water vapour transmission:	ASTM E96	0.12g/m²/24h	
Temperatue resistance:	AMTM004	0.05g/m²/24h	
Tear resistance:	BS EN 12310-1	>931.632N	
Puncture resistance:	BS EN 12691	1400mm	
Resistance to root penetration:	PD CEN/TS 14416:2014	Root penetration not observed	

Application Instructions

Surface preparation

Surface should be free of paint, curing compounds and other contaminates.

Surfaces should be free from cavities and projecting nibs.

All surfaces shall be free from running water. Refer to the method statement for further details.

For metal surfaces prior adhesion testing is recommended

Adhesive

Apply Fosroc Proofex OFB adhesive by scraper or roller at coverage rate to suit substrate, typically approximately 0.2kg/m². Leave for 5 to 10minutes before applying the membrane.

Membrane Application

Lightly moisten the Fosroc Proofex OFB membrane on the fleece side to improve the initial bond strength, then roll the membrane into the adhesive before skin formation, and press firmly, press again after 30 minutes if required.

A selvedge is provided along both edges of the membrane. The membrane layers are overlapped at the selvedge to achieve a minimum weld of 50mm. At roll ends, the membrane is butted together and a 100mm wide strip of Fosroc Proofex ORG welded on top of the Fosroc Proofex OFB membrane.

For corner detailing use Fosroc Proofex TPO Internal/ External corner pieces.

For upstand terminations use Fosroc Proofex TPO Metal Strip.

For additional details on installation and a list of applicators refer to your local Fosroc office.

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Limitations

Note: Each roll of Proofex OFB weighs approximately **85kg**. Special consideration of this weight is required when moving the product.

Supply

Proofex OFB:	
2.1m wide x 25m roll: (Coverage approx 50m² / roll)	FC007106-UNIT
Proofex OFB Adhesive: 12kg pail (Coverage rates approx 0.2kg/m²)	FC007105-12KG

Ancillaries

Proofex TPO Drain drop down 100mm with tray (conical roof drains):	FC007128-UNIT
Proofex TPO Single downpipe 100mm with tray (straight roof drains):	FC007125-UNIT
Proofex TPO Pipe collar 50-90mm dia. (pipe seal):	FC007127-UNIT
Proofex TPO Pipe collar 75-125mm dia. (pipe seal):	FC007126-UNIT
Proofex TPO Air vent 75mm dia. 200mm high:	FC007129-UNIT
Proofex TPO Air vent 110mm dia. 325mm high:	FC007130-UNIT
Proofex TPO 90 degree scuppper 100mm dia. 65mm x 100mm:	FC007131-UNIT
Proofex TPO Termination Profile 70mm:	FC007124-UNIT
Proofex TPO walkways 1.8mm 0.75m x 30m:	FC007123-UNIT
Proofex TPO External corner:	FC007121-UNIT
Proofex TPO Internal corner:	FC007122-UNIT
Proofex TPO Coated sheet 1.2mm x 1m x 2m:	FC007120-UNIT

Storage

Store in dry conditions not exceeding 30°C. Membrane rolls must be stored horizontally no more than one pallet high.

Fire

Fosroc Proofex OFB is non-flammable.

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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