Fosroc®
Proofex® ORG

FOSROC constructive solutions

Loose laid reinforced TPO waterproofing membrane

Uses

Provides a continuously loose laid waterproof membrane system for building and civil engineering structures.

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

Advantages

- Cold applied
- High resistance to weathering and UV
- Resistance to root penetration
- Fast application
- Welded joints for maximum watertightness
- No separation layers required on to EPS
- Excellent long term performance

Standards compliance

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

The test report 273-2 is available from the Fosroc web site.

Description

Proofex ORG is a TPO/FPA (Thermoplastic Polyolefin Flexible Polypropylene Alloy) reinforced 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.

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

Properties

Test	Test Standard	Result
Thickness:	EN 1849-2	1.5mm
Weight:	EN1849-2	1.43 kg/m^2
Colour:		Grey top / Black underside
Tensile strength Longitudinal: Transverse:	EN 12311-2 A	 714 N/50mm 602 N/50mm
Elongation at break: Longitudinal: Transverse:	EN 12311-2 A	 >1000% >950%
Puncture resistance:	EN 1269/1B Dynamic	1000mm
Water impermeability	EN 1928-B	60 kPa
Tear resistance Logitudinal: Transversal:	EN 12310-1	 ≥ 550 N ≥ 500 N
Lap joint strength (welded):	UEATc:	≥400 N/50mm
Hail resistance:	EN 13583	> 26 m/s
UV resistance:	EN 1297	Pass 2500 hrs no cracks
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	0.024mm	Meets requirement for non-trafficable membrane
Abrasion resistance - trafficable:	AS1580.403.2	0.044mm	Meets requirement for occasional and pedestrian traffic only
Dimensional stability:	ASTM D6207	No change in length	
Durability - control elongation at break	AS1145.3	1265%	Class III
Durability - control tensile strength	AS1145.3	11.18 MPa	
Durability - water immersion elongation at break:	AS4654.1	1270%	Pass
Durability - water immersion tensile strength:	AS4654.1	13.83 MPa	
Durability - detergent immersion elongation at break:	AS4654.1	1270%	Pass
Durability - detergent immersion tensile strength:	AS4654.1	13.34 MPa	
Durability - heat aging elongation at break:	AS4654.1	1244%	Pass
Durability - heat aging tensile strength:	AS4654.1	11.24 MPa	
Durability - UV exposure elongation at break:	AS4654.1	1269%	Pass
Durability - UV exposure tensile strength:	UV lamp	13.61 MPa	
Field seam strength:	AMTM005	306.24 N/25mm	
Water vapour transmission:	ASTM E96	0.02g/m²/24h	
Temperatue resistance:	AMTM004	0.05g/m²/24h	
Tear resistance:	BS EN 12310-1	747.7N	
Puncture resistance:	BS EN 12691	1600mm	
Resistance to root penetration:	PD CEN/TS 14416:2014	Root penetration not observed	

Application Instructions

Surface preparation

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.

Application

The membrane layers are overlapped to achieve a minimum weld of 50mm.

For corner detailing, Fosroc Proofex TPO Internal/External corner pieces are available.

For upstand termination detailing, Fosroc Proofex TPO Metal Strips are available.

Hot air welding can be either hand applied or by means of automatic machines.

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

Limitations

Note: Each roll of Proofex ORG weighs approximately **80kg**. Special consideration of this weight is required when moving the product.

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Supply

Proofex ORG:	
2.1m wide x 25m roll:	FC007104-UNIT
Proofex OFB Adhesive: 12kg pail (Coverage rates approx 0.4 - 0.6kg/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 x2m:	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 ORG 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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