

PVC waterproofing membrane

Uses

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

- Basement waterproofing
- Tunnel waterproofing

Advantages

- Cold applied
- Good resistance to puncturing
- Fast application
- Hot air welded joints for maximum watertightness
- High flexibility in cold temperatures

Description

Flexible PVC synthetic membrane for the waterproofing of tunnels and below ground structures.

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

Properties

Thickness (EN 1984-2):	2mm
Colour:	Upper layer: Light Grey Underside: Black
Tensile strength (ASTM D412 and EN12311-2)	
Longitudinal:	16.5 N/mm ²
Transverse:	15 N/mm ²
Elongation at break (ASTM D412 and EN12311-2)	
Longitudinal:	>300%
Transverse:	>300%
Puncture resistance (EN12236):	2.6 KN
ASTM E154):	1200 N
Water impermeability (EN 1928):	Pass test
Water vapour transmission (ASTM E96):	Nil
Tear resistance (EN12310-1):	>340 N
(ASTM D624):	50 N/mm ²
Lap joint strength (EN12317 and UEATc):	>1000 N/50mm (broken out joint)
Cold flexibility (EN495-5 @ -35°C):	Pass
Root resistance (EN TS14416):	Pass test - no penetration

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

For vertical applications, weld Fosroc Proofex PGP Fitters to the Fosroc Proofex PGP membrane.

Fosroc Proofex PGP Fitters are 80mm diameter PVC ribbed discs. For upstands Fosroc Proofex PGP can be glued to the substrate using Fosroc Proofex PGP Adhesive, available in hand or spray grades.

Compartments can be created using Fosroc Supercast Rearguard waterstops (no eyelets grade) in bay sizes agreed by the Engineer.

Use Fosroc Proofex PGP Flanges and Proofex PGP Sleeves within the bays connected to hoses, which will allow future resin injection if required. Fosroc Proofex PGP Flanges are PVC 180mm diameter flanges with a connector pipe.

Limitations

If left exposed to heat, direct sunlight or UV light a change of colour may result and some physical properties may change.

Note: Each roll of Proofex PGP weighs approximately **140kg**. Special consideration of this weight is required when moving the product.

Supply

Proofex PGP:	
2.1m wide x 25m roll:	FC007100-UNIT
Proofex PGP Fitter 80mm: (Boxes of 100)	
	FC007101-UNIT
Proofex PGP Flange 180mm: (Boxes of 10)	
	FC007102-UNIT
Proofex PGP Sleeve: (Boxes of 30)	
	FC007103-UNIT

Storage

Store in dry conditions not exceeding 30°C. Storage above this temperature may reduce storage life. Membrane rolls must be stored upright.

Fire

Fosroc Proofex PGP, Proofex PGP Fitters, Flanges and Sleeves are non-flammable.

Fosroc® Proofex® PGP

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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NZBN 9429033691282