



Fosroc Proofex PGP (X)

Loose laid PVC waterproofing membrane

Uses

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

- Basement waterproofing
- Tunnel waterproofing
- Podiums and covered roof waterproofing
- Green roofing

Advantages

- Cold applied
- Good resistance to puncturing
- Fast application
- Hot air welded joints for maximum watertightness
- High flexibility in very cold temperatures
- Suitable for waterproofing basements grades 2, 3 and 4 as defined in BS 8102 : 2009 & IS 16471 : 2017 - code 'Protection Of Structures Against Water From The Ground.

Description

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

The Membrane is made of original raw material & free from DEHP (DOP) plasticizer.

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.

Specification

The waterproofing shall be a 2mm / 2.5 mm thick loose laid PVC membrane with hot air welded seams.

Typical Properties

Thickness(I) (EN 1849-2)	: 2mm , 2.5mm
Colour	: Upper Iyer: Light grey Underside Black
Tensile strength (EN12311-2)	
Longitudinal	: 17N/mm ²
Transverse	: 17N/mm ²
Elongation at break (EN12311-2)	
Longitudinal	: >300%
Transverse	: > 300%
Puncture resistance (EN12236)	: 2.5mm : 3.5 KN : 2.0mm - 3.5KN
Water impermeability (EN1928)	: Pass test

Dimensional stability (EN 1110)	
70° for 2 hours	: Stable
Tear resistance (BSEN 12310-2)	: >140 N/mm
Lap joint strength (EN12317-2)	: 13N/mm ²
Cold flexibility (EN 495 - 5 at < -35°C)	: Pass
Root resistance EN TS 14416)	: Pass test - no penetration
Fire (EN 1350-1 and EN ISO 11925-2)	
Classification	: Class E
Cold flexibility (DIN 495-5 at -35°C)	: Pass
Resistance to acid/alkaline (DIN 16726-28d at 23°C)	
Tensile elongation change <10%)	
Dynamic Puncture Resistance as per DIN 16726-2011	: >1100 mm

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions.

Instructions for use

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 100mm. Hot air welding can be either hand applied or by means of automatic machines. Refer to Fosroc for further advice.

For vertical applications, weld Fosroc Proofex PVC Fitters to the Fosroc Proofex PGP(X) membrane. Fosroc Proofex PVC Fitters are 80mm diameter PVC ribbed discs.

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

Use Fosroc Proofex PVC Flanges within the bays connected to hoses, which will allow future resin injection if required. Fosroc Proofex PVC Flanges are PVC 182mm diameter flanges with a connector pipe.

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

Limitations

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

Fosroc Proofex PGP (X)

Storage

Fosroc Proofex PGP(X) must be stored in a cool, dry store away from sources of heat in the original unopened packaging.

Store rolls horizontally, not more than one pallet high.

Precautions

Health and Safety

For further information, please consult MSDS.

Fire

Fosroc Proofex PGP(X), Proofex PVC Fitters and Flanges are non- flammable.

Supply

Proofex PGP(X) (all thicknesses)	2.1m wide x 19m long rolls 2.1m wide x 25m long rolls
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Proofex PVC Fitter	each
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Proofex PVC Flange	each
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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



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