

Double reinforced Torch applied waterproofing membranes.

Uses

To provide waterproofing and damp-proof membranes for:

- Concrete roof and grade slabs
- Basement tankings
- Car park deck slabs
- Bridge deck
- Tunnels and subways

Advantages

- Double layer reinforcement gives excellent resistance to puncture and tear resistance
- Easily torch applied
- Heavy duty
- Readily formed to contours
- High Tensile, tear resistance

Description

Proofex Torchseal 4PDR are quality torch applied APP based membranes manufactured from premium grade heavily modified bitumen, reinforced with a core of non-woven polyester fabric weighing 160g/m² & 50g/m² of fibreglass, rot-proof and is malleable.

The core gives the membrane its excellent mechanical properties, allows for good elongation and affords high resistance to piercing and tear.

Proofex Torchseal 4PDR membranes are ideal for use in a wide range of waterproofing applications such as deep and heavy-foundations, basements, tunnels, roofs, carpark decks and other civil works. The chemical resistance of Proofex Torchseal 4PDR makes it particularly suitable for tanking applications in areas where aggressive ground water conditions prevail.

Specification

The waterproofing membrane shall be a high performance APP based torch applied 4mm thick plain membrane, manufactured from high quality polymer - modified bituminous compounds and reinforced with non woven polyester fabric, weighing 160g/m² & 50g/m² of fibreglass.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Properties

Membrane thickness (+/- 5%)	: 4mm
(UEAtc. M.O.A.T.30)	
Nominal weight	: 4.90 kg/m ²
(UEAtc. M.O.A.T.30)	
Reinforcement base(Polyester)	: 160 g/m ²
Reinforcement base(Fibreglass):	50 g/m ²
(UEAtc. M.O.A.T.30)	
Tensile strength	
Longitudinal (ASTM D 638)	: 1000 N/5cm
Transverse (ASTM D 638)	: 600 N/5cm
Elongation of membrane	
Longitudinal (ASTM D 638)	: 40%
Transverse (ASTM D 638)	: 42%
Tear resistance	
Longitudinal (ASTM D 5147)	: 270 N/5cm
Transverse (ASTM D 5147)	: 300 N/5cm
Softening point	: 150°C
(ASTM D-36)	
Penetration at 25°C	: 20 dmm
(ASTM D-5)	
Cold Flexibility (0°C to -5°C)	: No Cracks Observed
(ASTM D 836)	
Heat Resistance at 120°C	: No Flow
(UEAtc. M.O.A.T.30)	
Resistance to Water Pressure	: No Leakage
(DIN 52123)	
Puncture resistance	: 900 N
(ASTM D 4833/ 5494)	

Instructions for use

Surface preparation

Concrete surfaces should be float finished and free from cavities and projecting nibs. All surfaces shall be dry and free from frost, surface laitence and contamination.

Priming

Proofex Torchseal Primer must be applied to the substrate and allowed to dry until it is tack free, prior to the application of the membrane. All surfaces must be re-primed if left for more than 24 hours prior to the application of Proofex Torchseal membranes.

Proofex Torchseal 4PDR

Application

The membrane is unrolled and placed in the correct position where it is to be torched on later. During each stage, each roll must overlap the next layer by at least 10cm. The membrane is rolled back without changing the orientation. The rolled membrane is slowly unrolled again, while its surface is lightly heated, transversally, by means of a propane gas torch, thus causing surface melting and subsequent adhesion to the surface. End joints should be made with a minimum of 15cm overlap.

Application tools and equipment

The tools and equipment required to apply Proofex Torchseal 4PDR membrane include a propane gas torch with related gas cylinder, a knife for cutting the membrane to size and a trowel with a rounded tip. Protective gloves and goggles are necessary when using the gas torch.

Estimating

Supply

Proofex Torchseal 4PDR : 10 m long x 1m wide roll

Proofex Torchseal Primer : 20 and 200 litre drums

Coverage

Proofex Torchseal Primer : 0.2 - 0.8 lt/m²

Storage

All products have a shelf life of 12 months if stored in a cool, dry store, away from sources of heat, in the original unopened packing. It should be stored horizontally, not more than one pallet high.

Precautions

Health and safety

If Proofex Torchseal Primer is swallowed, do not induce vomiting - drink a glass of water. If contact with eyes occurs, flood with copious amounts of clean water for at least 15 minutes and seek medical advice. If on the skin, remove any contaminated clothing and wash skin thoroughly.

For further information, please consult Material Safety Data Sheets for the above products.

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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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