



Proofex Torchseal 3P & 4P

(Proofex Torchseal 3P Formerly Known as Proofex Torchseal 3PV)

constructive solutions

Torch applied APP modified bitumen reinforced sheet membrane

Uses

To provide a waterproof and damp proofing membrane for concrete roof & floor slabs, basement tanking, car park deck slabs, concrete retaining structures, tunnels and subways, foundation, pits, wall in building & civil engineering structures.

Advantages

- High strength reinforcement
- Consistent Thickness
- Waterproof
- Good Physical properties

Description

Proofex Torchseal 3P & 4P are high quality torch applied APP membranes manufacture from premium grade heavy modified bitumen, reinforced with a core of Non-Woven polyester fabric weighing 180 g/m², rot proof and is malleable.

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

Proofex Torchseal 3P and 4P membranes are ideal for use in a wide range of waterproofing applications

Proofex Torchseal is available in Sand finish and Slated (Mineral) finish.

Typical Support

Fosroc offers a comprehensive range of high performance high quality products. Fosroc also offers a technical support package to specifiers and contractors which includes assistance with product selection & technical advice.

Specification Clauses

Supplier Specification

Waterproof membrane, where shown on the drawing shall be Proofex Torchseal 3P/4P, Torch applied sheet membrane obtained from Fosroc Limited. Proofex Torchseal shall be applied / installed in accordance with current technical datasheet / Method Statement.

Performance Specification

The waterproofing membrane shall be 3mm or 4mm thick Torch applied sheet membrane comprising of APP modified bitumen with 180 gsm non-woven polyester fabric, tensile strength ≥ 650 N/5cm.

Typical properties

Thickness	Proofex Torchseal 3P: 3mm ± 0.15 Proofex Torchseal 4P: 4mm ± 0.2
Weight	Proofex Torchseal 3P: 4.0kg/m ² ± 0.4 Proofex Torchseal 4P: 5.2kg/m ² ± 0.52
Reinforcement	180 g/m ² , Polyester Non-Woven
Softening Point (ASTM D36)	$\geq 150^{\circ}\text{C}$
Penetration (ASTM D5)	25-30 dmm
Flexibility at Low Temperature (ASTM D5147) 0°C, Pass	
Tensile Strength (ASTM D5147, N/5cm)	
Longitudinal	≥ 650
Transverse	≥ 400
Elongation (ASTM D5147)	$\geq 35\%$
Tear Strength (ASTM D5147)	
Longitudinal	≥ 24 N/mm
Transverse	≥ 18 N/mm
Lap Joint strength (SS 374) or breakage outside the joint profile	≥ 480 N
Resistance to tearing Nail shank (EN12310-1)	160 N ± 48
Water Absorption (ASTMD 5147)	$\leq 0.7\%$
Water vapour Transmission (ASTM E96)	
Proofex Torchseal 3P:	< 8.0 g/m ² /24h
Proofex Torchseal 4P:	< 1.5 g/m ² /24h
Resistance to ageing due to UV radiation (ASTM G154)	No signs of deterioration after the test

Application Instruction

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 laitance and contamination.

Priming

Proofex Primer or similar 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 the Proofex Torchseal.

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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 be 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 15 cm overlap. Use of Proofex protection boards is necessary before other construction trades or upcoming structural concrete is poured.

Application tools and equipment

The tools and equipment required to apply Proofex Torchseal 3P and 4P 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.

Damaged areas of Proofex Torchseal must be repaired with a minimum 300mm X 300mm patch to ensure that there is at 150mm overlap of Proofex Torchseal all around the damaged area. If work is continued from one day to next, all exposed edges must be sealed by rolling to prevent water penetration.

All horizontal areas of Proofex Torchseal should be protected as soon as possible after application with Proofex Protection board or a sand/cement screed.

Supply

Proofex Torchseal 3P, 4P	10m Long X 1m Wide rolls
Proofex Primer	20 and 200 Litre Drums
Proofex Primer	0.2 – 0.8 Litre /m ²

Storage

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

Precautions

Health and Safety

For further information, please refer Product SDS.

Fire

Fosroc Proofex Torchseal & Proofex Protection Board, Proofex Primer are flammable.

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