

## 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 5PDR 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/m<sup>2</sup> & 50g/m<sup>2</sup> 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 5PDR 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 5PDR 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/m<sup>2</sup> & 50g/m<sup>2</sup> 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 (ASTM D751/ASTM D5147)	: 5mm/5.8kgs per m2
Softening point (ASTM D36)	: 150°C
Penetration (DOW) of coating mixture (ASTM D5)	: 20 to 30 dmm
Tensile strength	
Longitudinal (ASTMD146-04/ ASTM)	: 850N/5cm
Transversal (D 5147/UEAtc)	: 650N/5cm
Elongation	
Longitudinal (ASTMD146-04/ ASTM D 5147/ UEAtc)	: 44%
Transversal	: 50%
Tear Resistance	
Longitudinal (ASTMD146-04/ ASTM D 5147/ UEAtc)	: 230N
Transversal	: 200N
Load Stain Product	
Longitudinal (CGSB-37-GP-56M)	: 37,500
Transversal	: 28,620
Lap Joint Strength	
Longitudinal (UEAtc)	: >800N/5cm
Transversal (CGSB-37-GP-56M)	: >600N/5cm
Puncture Resistance	
Static	: L4
Dynamic (UEAtc)	: L4
Water Vapour Permeability (ASTM E96)	: Impermeable
Water Absorption-PBS (ASTM D 570)	: <0.15%
Creeping of the membrane applied on a 600 sloped surface at a Test Temperature of 100°C during 120 hour (UEAtc)	: No Creeping
Flexibility at low temperature (-5 5°C) (UEAtc)	: No Cracks
Impermeability of the membrane to water (UEAtc)	: Absolutely Nil
Resistance to Thermal Ageing (UEAtc)	: No Sign of Ageing
Resistance to Ageing due to UV: radiation (ASTM G53)	: No sign of deterioration
Adhesion strength of the membrane fully bonded to a concrete deck, previously treated with prim (UEAtc)	: 0.80kgs/cm2
Cold Flexibility 0°C to -5°C (ASTM D 4586)	: Passes

# Proofex Torchseal 5PDR

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## 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.

### 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 atleast 10cm. The membrane is rolled back without changing the orientation. The rolled membrane is slowly unrolled again, while it's 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 5PDR 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

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Proofex Torchseal 5PDR : 10 m long x 1m wide roll

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Proofex Torchseal Primer : 20 and 200 litre drums

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### Coverage

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Proofex Torchseal Primer : 0.2 - 0.8 lt/m<sup>2</sup>

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## 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 :

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