



Proofex Torchseal (PE)

High Performance waterproofing membrane

Uses

To provide waterproofing and damp-proof membranes for:

- Concrete roof and floor slabs
- Basement tankings
- Car park deck slabs
- Concrete retaining structures
- Tunnels and subways

Advantages

- High strength reinforcement gives excellent resistance to puncture and stress
- Easily torch applied
- Bonds well to the substrate
- Readily formed to contours

Description

Proofex Torchseal (PE) is a high performance waterproofing membrane manufactured from premium grade heavily modified bitumen, reinforced with a core of HMHDPE Film weighing 180g/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 (PE) membranes are ideal for use in a wide range of waterproofing applications such as foundations, basements, tunnels, roofs, carpark decks and other civil works. The chemical resistance of Proofex Torchseal (PE) makes it particularly suitable for tanking applications in areas where aggressive ground water conditions prevail.

Slated surface (3 mm / 4mm) Aluminium faced range (3mm / 4mm) and double reinforced torch membranes are also available.

Specification

The waterproofing membrane shall be a high performance 3mm / 4mm thick membrane, manufactured from high quality polymer - modified bituminous compounds and reinforced with HMHDPE Film, High Density of 100 Microns.

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%)	: 3mm & 4mm
(ASTM D 751)	:

Nominal weight	: 3mm - 3.5kg/m ²
	4mm - 4.5kg/m ²

HMHDPE base	: High Density 100
	Microns

Softening point	: 150°C
(ASTM D36)	:

Penetration	: 17 - 25 dmm
(ASTM D5)	:

Flexibility at low temperature	: -5°C
(Din 52123)	:

Tensile strength	
Longitudinal (UEAtc)	: 790 N/5cm
Transverse (UEAtc)	: 730 N/5cm

Elongation of membrane	
Longitudinal (UEAtc)	: 65%
Transverse (UEAtc)	: 69%

Tear resistance	
Longitudinal (ASTM D4073)	: 180 N
Transverse (ASTM D4073)	: 190 N

Lap joint strength	
Longitudinal (UEAtc)	: 750 N/5cm
Transverse (CGSB37-GP56m)	: 550 N/5cm

Load Strain	
Longitudinal (CGSB-37-GP56M)	: 41,000
Transverse	: 36,000

Puncture Resistance	
Static (UEAtc)	: 1:4
Dynamic	: 1.3

Water absorption	: <0.15%
(ASTM D5147)	:

Water vapour transmission	: <0.50g/m ² /24h
(ASTM E96)	:

Resistance to ageing due to	: No signs of deterioration
UV radiation (ASTM G53)	after the test

Pliability @ 50°C for 3 hrs	: No sign of cracking
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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.

Proofex Torchseal (PE)

Priming

Proofex Torchseal (PE) 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 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 (PE) 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 (PE)	: 10 m long x 1m wide roll
Proofex Torchseal(PE)	: 20 and 200 litre drums Primer

Coverage

Proofex Torchseal (PE)	: 0.2 - 0.8 lt/m² Primer
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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 (PE) 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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