

## Torch applied 4.5mm thick, 'plant root repellent' membrane, reinforced with rot-proof single strand non-woven polyester fabric

### Uses

Proofex Torchseal A700 is used in waterproofing systems in contact with the ground or where there is a risk of the system being attacked by roots.

Proofex Torchseal A700 is applied as the final waterproofing layer in contact with earth for gardens, foundations, underground structures and tunnels covered with soil. When waterproofing roof gardens, it is used as the top layer of a system, the first layer being a polymer-bitumen membrane reinforced with 'non-woven' polyester fabric such as Proofex Torchseal A600/A800 and the second being Proofex Torchseal A700 which is placed astride the overlaps of the previous layer and fully torch bonded.

### Advantages

- APP polymer modified -specifically selected for Australian climate conditions
- Resistant to roots including the overlaps
- Does not disperse dangerous substances in the environment
- Puncture resistant
- Handles ponding and permanently wet conditions
- No curing times. Instantly waterproof
- Uniform thickness – eliminating likelihood of uneven application possible with liquid applied membranes
- Excellent stability at both high and low temperatures
- Excellent durability and flexibility
- Complies to AS 4654.1

### Description

Proofex Torchseal A700 is a polymer-bitumen waterproofing membrane with an antiroot additive, reinforced with a 'non-woven' polyester fabric for protecting roof gardens, buried works and gravel covered roofs. The antiroot properties are obtained by adding a specific antiroot agent (esterified fatty acids and oxyphenols) to the polymer-bitumen compound.

Proofex Torchseal A700 forms a continuous 4.5mm thick barrier against roots, even along the overlaps, due to the fact that the entire compound which forms the waterproofing mass is activated. The anti-root additive does not migrate in the ground nor is it washed out by water and it is resistant to the heat produced by torch bonding the overlaps.

The reinforcement of the membrane consists of a 'non-woven' polyester fabric which is resistant to puncture and tearing.

The underside of the membrane is coated with polyethylene film that melts when torched.

### Standards Compliance

Proofex Torchseal A700 has been independently tested to comply with the requirements of AS/NZS 4654.1:2012 Waterproofing membranes for external above-ground use Part1:Materials; X TecGen test report 216-2.

Copies of the test report are available from the Fosroc website.

### Properties

<b>Thickness:</b>	4.5mm (±5%)
<b>Reinforcement:</b>	Non woven polyester
<b>Flow resistance at elevated temperature (EN 1110):</b>	≥ 120°C
<b>Flexibility at low temperature (EN 1109):</b>	≤ minus10°C
<b>Tensile strength (EN 12311-1) N/50mm:</b>	longitudinal: 600 (±20%) transverse: 500 (±20%)
<b>Tensile elongation (EN12311-1):</b>	longitudinal: 30% (±15%) transverse: 30% (±15%)
<b>Bond strength (ASTM C794):</b>	34.48 N
<b>Cyclic movement (AS4654.1 App. B):</b>	Pass
<b>Dimensional stability (ASTM D6207):</b>	No changes observed
<b>Elongation at break (AS1145.3):</b>	41% (Class 1)
<b>Tensile strength (AS1145.3):</b>	2.34 MPa
<b>Water immersion elongation at break AS4654.1 App. A):</b>	45% (Pass)
<b>Water immersion tensile strength (AS4654.1 App. A):</b>	2.08 MPa
<b>Detergent immersion elongation at break (AS4654.1 App. A):</b>	37% (Pass)
<b>Detergent immersion tensile strength (AS4654.1 App. A):</b>	2.70 MPa
<b>Heat ageing elongation at break (AS4654.1 App. A):</b>	42%
<b>Heat ageing tensile strength (AS4654.1 App. A):</b>	2.27 MPa
<b>Field seam strength (AMTM005):</b>	258.51 N/25mm
<b>Water vapour transmission (ASTM E96):</b>	0.42 g/m <sup>2</sup> /24 hours
<b>Puncture resistance (BS EN 12691:2018):</b>	No failure observed

# Fosroc® Proofex® Torchseal® A700

## Application Instructions

### Surface preparation

All surfaces receiving the Proofex Torchseal A700 membrane must be firm, dry, and free from contaminants and loose material. Surfaces must also be even and smooth, without any defects that could damage the membrane. Rough concrete must be "faired up" before commencing application. For small repairs, suitable material can be made by mixing two parts fine clean sand with one part GP cement, a small amount of water to dampen the mix then add Fosroc Nitoproof 210 to make a trowelable paste.

### Priming

Fosroc Primer 24 should be applied to all the prepared surfaces prior to the application of the membrane and allowed to dry. The primer will take at least one hour to dry at temperatures 25°C and above. At lower temperatures allow additional drying time.

Fosroc Primer 24 should be applied at the rate of approximately 8m<sup>2</sup>/litre (0.13 litre/m<sup>2</sup>) to the surface to which Proofex Torchseal A700 will be applied. The coverage rate for the primer will vary depending on the porosity of the surface being treated.

Primer may be applied by brush, roller or spray equipment, coverage must be uniform. Primed areas must be covered with the membrane on the same day.

### Application

Planning the installation of the membrane is important to ensure joints occur in suitable locations.

Proofex Torchseal A700 membrane must be laid to allow side laps of 80 to 100mm and end laps of 120 to 150mm. Application of the membrane is by torch bonding using a suitable gas torch. The membrane is applied with the surface protected by the polyethylene film facing down towards the substrate, during the application of the gas flame the polyethylene film will melt away.

Beginning at the lowest point of the deck area and working in the direction of the slope towards the highest point. The first roll of membrane is unrolled completely and aligned, remaining rolls should be unrolled approx. halfway in order to properly align the side lap and ensure the required 120 to 150mm end lap is maintained.

Starting at the low point in the deck apply heat by the gas torch to the outer surface of the rolled portion of membrane while un-rolling, move the flame from side to side while unrolling the membrane by slightly pressing it onto the underlying surface.

Avoid shifting the roll while unrolling. Follow the edge of the deck or the lap line. In order to have a smooth and even seal at the joint, apply the flame to the bleed out and the trowel simultaneously and spread the melted compound evenly to seal the joint.

Proceed torching the remaining membrane as described above, working your way to the highest point on the deck always maintaining the 100mm side lap and 150mm end lap.

On completion of the membrane installation all exposed perimeter edges must be mechanically fixed or terminated under a flashing.

### Protection

Whilst the Proofex Torchseal A700 membrane is based on a polymer modified bitumen which is resistant to UV, it is not recommended for long term exposure without some form of protective topping medium.

Where the membrane is to be back filled, such as with basement applications, Proofex Torchseal A700 should be protected from mechanical damage with Proofex Sheet 81 drainage/protection system.

### Maintenance

No special requirements necessary. Any damage identified during normal inspections should be repaired or replaced as appropriate.

### Limitations

New concrete substrates should be allowed to cure for a minimum of 28 days prior to the installation.

### Supply

Proofex Torchseal A700 is supplied in 1m wide x 10m rolls

Proofex Torchseal A700:	FC007015-UNIT
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Fosroc Primer 24:	4 litre:	FC020500-4L
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Fosroc Primer 24:	20 litre:	FC020500-20L
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### Coverage

Proofex Torchseal A700:	Approx. 9m <sup>2</sup> / 10m roll allowing for overlaps
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Fosroc Primer 24:	6 - 8m <sup>2</sup> /litre
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Note: no allowance has been made for wastage.

### Storage

Store in cool, dry conditions ie. not exceeding 30°C. Rolls must be stored on end and must NOT be stored lying down.

# Fosroc® Proofex® Torchseal® A700

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## Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

## Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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