Fosroc® Proofex® Torchseal® A825

constructive solutions

Torch applied, 4.5kg/m², mineral finish, reinforced polymer – bitumen waterproofing membrane

Uses

Proofex Torchseal A825 is used as a continuous waterproofing membrane for roofs and other UV exposed areas.

Proofex Torchseal A825 may be used as the top layer in a two layer membrane system or as a single roof membrane for both new and renovation work.

Advantages

- APP polymer modified -specifically selected for Australian conditions
- 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 flexibility
- Mineral finish provides improved UV resistance

Description

Proofex Torchseal A825 is manufactured by co-extrusion of an elastoplastomeric bitumen-polymer compound and a non-woven polyester reinforcement.

The lower face of the membrane is manufactured with a sacrificial polyethylene film which prevents sticking when the membrane is in storage.

Proofex Torchseal A825 has the upper face self protected with a layer of grey slate granules. A side selvedge is provided along one edge of the roll to allow for adequate heat welding of the side laps.

Standards Compliance

Proofex Torchseal A825 has been independently tested to comply with the requirements of AS/NZS 4654.1:2012 Waterproofing membranes for external above-ground use Part1:Materials; CSIRO test report SW8572.

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

Properties

Mass:	4.5kg / m² (±10%)
Reinforcement:	Non woven polyester
Colour:	Natural grey slate
Flow resistance at elevated temperature (EN 1110):	≥ 120°C
Flexibility at low temperature (EN 1109):	minus12 to minus 15°C
Tensile strength (EN 12311-1) N/50 mm:	longitudinal: 700 (±20%) transverse: 600 (±20%)
Tensile elongation (EN12311-1):	longitudinal: 45% (±15%) transverse: 45% (±15%)
Dimensional stability (EN1107-1):	≤ 0.5%
Resistance to static loading (EN 12730):	20kg
Resistance to impact loading (EN 12691):	1250mm
External fire perfomance (EN13501/5):	F_{Floor}
Reaction to fire (EN 13501/1):	F
Impermeability to water (EN1928 B method):	≥ 60 kPa
Bond strength (ASTM C794):	35.31 N
Cyclic movement (AS4654.1 App. B):	Pass (Class 1)
Dimensional stability (ASTM D6207-03):	No changes observed
Elongation at break (AS4654.1 App. A):	23%
Tensile strength (AS4654.1):	1.90 MPa
Water immersion elongation at break AS4654.1 App. A):	32% (Pass)
Water immersion tensile strength (AS4654.1 App. A):	1.36 MPa
Detergent immersion elongation at break (AS4654.1 App. A):	29% (Pass)
Detergent immersion tensile strength (AS4654.1 App. A):	1.14 MPa
Heat ageing elongation at break (AS4654.1 App. A):	25%
Heat ageing tensile strength (AS4654.1 App. A):	1.56 MPa
Temperature resistance (AS4654.1):	Passed
UV resistance (AS4654.1):	Passed
Abrasion resistance (AS1580.403.2.1):	0.18mm (non-trafficable)
Water vapour transmission (ASTM E96):	0.57 g/m²/24 hours

Fosroc® Proofex® Torchseal® A825

Application Instructions

Surface preparation

All surfaces receiving the Proofex Torchseal A825 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 8m²/litre (0.13 litre/m²) to the surface to which Proofex Torchseal A825 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 A825 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

Proofex Torchseal A825 membrane is based on a polymer modified bitumen and has additional UV resistance due to the mineral slate finish therefore recommended for long term exposure however is not suitable for heavy foot traffic or vehicle traffic.

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 A825 is supplied in 1m wide x 10m rolls

Proofex Torchseal A825:		FC007017-UNIT
Fosroc Primer 24:	4 litre:	FC020500-4L
Fosroc Primer 24:	20 litre:	FC020500-20L

Coverage

Proofex Torchseal A825:	Approx. 9m² / 10m roll allowing for overlaps
Fosroc Primer 24:	6 - 8m²/litre

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.

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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