

Fast drying flexible two component polymer modified cementitious waterproofing membrane

Uses

Emer-Proof Quick Dry is suitable for a wide range of waterproofing applications such as:

- Podiums, terraces, balconies, and deck areas – undertoppings, tiles and other protected environments
- Wet areas and showers - Class II membrane system
- Foot trafficable exposed roof top membrane, exposed balcony decks and walkways subject to regular foot traffic when overcoated with Emer-Proof Top Coat.
- Foundation waterproofing applications
- Suitable for subterranean areas such as retaining walls

Advantages

- Low VOC
- Solvent free, non hazardous
- Tough and flexible with excellent elongation properties
- Suitable for internal and external applications
- Exhibits a high hardness
- Australian made
- Compatible with polymer modified cement based tiles adhesives, screeds and renders.

Description

Emer-Proof Quick Dry is a water based, fast drying, flexible two component, polymer modified cementitious waterproofing membrane designed for podiums, terraces, balconies, and deck areas – under toppings, tiles and other protected environments.

It may also be used for foot trafficable exposed roof top membranes and foot trafficable exposed balcony decks when overcoated with Emer-Proof Top Coat.

Emer-Proof Quick Dry offers excellent adhesion properties over many primed building surfaces once correctly primed and prepared.

Design Criteria

Emer-Proof Quick Dry is designed to be applied by thick brush or roller and should be applied as two (2) coats with a minimum WFT of 1.5mm (coverage of 1.5 litres/m²) resulting in a minimum DFT of 1.2mm.

For applications requiring compliance to AS4858 / AS4564.1, Emer-proof Quick Dry is to be applied as two (2) coats with a minimum with a minimum WFT of 1.9mm (coverage of 1.9 litres/ m²) resulting in a minimum DFT of 1.5mm.

Properties

Wet form

Specific Gravity of mixed product:	1.3 kg/litre
VOC content:	9g / litre
Appearance	
Liquid:	White liquid
Powder:	Grey powder
Mixed:	Grey slurry
Mixing ratio:	1:1 by weight

Cured membrane

Elongation:	>300% (internal test method @ 7 days cure) 202% (AS4858 - after 56 days bleach immersion)
Tensile strength:	1.3 MPa
Shore A hardness:	65
Colour:	Grey
Moisture transmission rate*:	7.05g/m ² /24hrs (ASTM E 96) Permeance 48.44ng/Pa.s.m ²
Water absorption*:	Max. mass 1.23% (AS3558.1)
Cyclic movement*:	Class II (AS/NZS 4858)
Durability*:	Class II (AS/NZS 4858)

*At 1.5mm DFT - refer CSIRO report for detailed information.

Drying times @ 23°C

Recoat:	2 to 4 hours
Dry film:	5 to 7 hours
Immersion:	7 days
Flood testing:	36 hours

Based on normal ambient conditions of 23°C @ 50% RH. Allow a further minimum 24 hours of drying time @ 10°C

Standards Compliance

Emer-Proof Quick Dry has been tested by CSIRO to the requirements of AS/NZS 4858:2004 Wet Area Membrane as a Class II membrane against AS 3740:2010 Waterproofing of Wet Areas Within Residential Buildings; CSIRO test report SW8536-AS4858.

Emer-Proof Quick Dry has been tested by CSIRO to the requirements of AS/NZS 4654.1:2012 Waterproofing membranes for external above-ground use Part 1:Materials; CSIRO test report SW8536-AS4654.1.

Copies of the CSIRO reports are available on request.

Specification Clauses

Where so designated on the drawings, surfaces shall have a low VOC, liquid applied, water based, fast drying, flexible two component, polymer modified cementitious waterproofing membrane applied. The membrane shall be Emer-Proof Quick Dry

Areas shall be prepared and the membrane applied in accordance with the current Emer-Proof Quick Dry Technical Data Sheet.

Application Instructions

Emer-Proof Quick Dry must be installed in accordance with AS3740 Waterproofing of wet areas within residential buildings or AS4654.2 Waterproofing membranes for external above-ground use.

Coverage

Emer-Proof Quick Dry is designed to be applied by brush, roller or airless spray.

In most applications, Quick Dry is applied as two (2) coats with a minimum total coverage of 1.5 ltr / m² (dried film thickness 1.2mm).

Surface preparation

Surfaces must be dry, clean, sound, stable and free of loose foreign material; existing coatings; laitance; release agents; curing compounds and oil/grease residues.

Concrete and masonry substrates should have a moisture content reading not exceeding 5% when tested using a Tramex CMEX11 moisture meter.

All new concrete surfaces must be allowed to cure for at least 7 days.

Rendered surfaces must be allowed to cure for at least 16 hours in normal ambient conditions prior to commencing waterproofing. Ensure all rendered surfaces have a wood float finish.

All screw / nail heads must be sealed with a neutral cure construction sealant such as Emer-Seal Paintable FC and all sheet joints must be covered with Emer-Proof Elastic Joint Band System. See Emer-Proof Elastic Joint Band System technical data sheet.

Ensure all surfaces are sound, dry and free from excessive movement, oil, dust, grease, wax, curing compounds, release agents, paint and any other loose contaminants. Also remove any protrusions from the surface that may pierce the membrane.

Priming

Substrates must be primed, prior to the application of Emer-Proof Quick Dry membrane.

For porous masonry surfaces, Emer-Proof Primer Porous should be applied at approx. 7m²/L, or for a more robust primer, apply one coat of Emer-Proof Vapour Control at 5m²/L (see TDS for further details on each).

For non-porous substrates, such as ceramic tile, metals, plastics, Scyon sheeting, CFC and wet area timber the use of Emer-Proof Primer Non-Porous should be applied at approx. 12m²/L (see TDS for further details).

Cracks

Cracks larger than 2 mm or structural shrinkage cracks must be firstly cleaned and any loose material removed then filled with Emer-Seal Paintable FC or covered with Emer-Proof Elastic Joint Band System. See Emer-Proof Elastic Joint Band System technical data sheet.

Emer-Proof Elastic Joint Band System

The Emer-Proof Elastic Joint Band System has been developed as a superior bond breaker system to traditional sealants and bond breaker tapes.

The Emer-Proof Elastic Joint Band System includes tape (for change of direction – such as wall/wall and wall/floor joints), both 270° external and 90° internal corners.

If being used in tanking and waterproofing applications, the Emer-Proof Quick Dry requires a suitable bond breaker at all substrate junctions. Use Emer-Proof Elastic Joint Band System or equivalent bond breaking methods compliant with local waterproofing standards and building recommendations.

Mixing

Emer-Proof Quick Dry should thoroughly be mixed in equal parts by weight or the ratio of 1L Part A liquid to 0.8 L Part B dry powder.

- Add approximately half of the powder while mixing and wet out well, then add the remaining powder and wet out well.
- Scrape the sides of the pail and mixing paddle
- Mix at higher speed, avoiding aeration, for 3 minutes.

Cease mixing and 'allow the mixed material to stand for 3 minutes, and then lightly re-mix'. The Emer-Proof Quick Dry is then ready to apply.

Membrane Application

Ensure the surface has been appropriately prepared in accordance with this TDS.

The Emer-Proof Elastic Joint Band System should be installed first. Mix an appropriate amount of the Emer-Proof Quick Dry waterproofing membrane that can be used within its working life as per the instructions in this TDS.

Apply the mixed Emer-Proof Quick Dry across the substrate joints extending approximately 70mm either side of the joint. Whilst the Emer-Proof Quick Dry is still in a wet state install the Emer-Proof Joint Band tape and corners ensuring that all air voids are expelled. Emer-Proof Elastic Joint Band Corners should be placed in first followed by the Emer-Proof Joint Band tape.

The Emer-Proof Joint Band tape and corners can be joined via a 50mm overlap, sandwiching a small amount of Emer-Proof Quick Dry membrane between the overlapping faces.

In general applications Emer-Proof Quick Dry is applied as two (2) coats with a minimum total coverage of 1.5litres/m².

Each successive coat should be applied at 90 degrees to the previous coat. Allowing a drying time of 2 to 3 hours between coats.

For applications requiring compliance to AS4858 / AS4564.1, Emer-Proof Quick Dry is to be applied as two (2) coats with a minimum with a minimum WFT of 1.9mm (coverage of 1.9 litres/ m²) resulting in a minimum DFT of 1.5mm.

Conduct a final inspection on the surface of the membrane prior to commencing tiling to ensure no pin holes exist. A further coat may be required if imperfections or pinholes are present in the membrane.

Once the waterproofing is completed, do not disturb the area for at least 24 hours. Tiling or overcoating can commence approximately 24 hours after final Emer-Proof Quick Dry coat.

Polymer modified cement based tile adhesives are recommended for tiling application.

Curing and protection

Emer-Proof Quick Dry is not UV stable and must be cured for a minimum of 24 hours at 25°C before placing protection. Tiling should commence within 5 days.

Where damage to the membrane is possible (by traffic backfilling, etc.), it should be protected by a cementitious screed or protection board.

Emer-Proof Quick Dry can be over-coated with Emer-Proof Top Coat to make the membrane foot trafficable and UV stable.

Cleaning

Prior to hardening, Emer-Proof Quick Dry can be cleaned from tools and equipment using water. Hardened material will need to be removed via mechanical means.

Splashes of Emer-Proof Quick Dry on paintwork etc. should be wiped off immediately using a cloth dampened with a strong detergent solution. Brushes and brooms etc. should be soaked in a strong detergent solution immediately after application has finished. Hands and skin may be cleaned using a proprietary waterless hand cleaner, but prevention of soiling is better practice by wearing gloves and overalls.

Maintenance

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

Limitations

Do not apply Emer-Proof Quick Dry in temperatures above 35°C or below 5°C.

Do not apply externally if it is raining or if rain is imminent.

Emer-Proof Quick Dry cannot be used in areas where negative hydrostatic pressure is evident.

Please Note:

Application of all liquid applied membranes and primers should always refer to the surface temperature conditions before commencing and not just ambient temperatures.

For example: ambient temperatures may be 10°C but the substrate could be 0°C and have frost issues. The same applies with higher temperatures: ambient temperature may be 26°C but have a substrate temperature of 36°C.

Supply

Emer-Proof Quick Dry Part A 12.5L Drum	FC000584-12.5L
Emer-Proof Quick Dry Part B 12.5kg bag:	FC000585-12.5KG
Emer-Proof Primer Non-Porous – 4L Pail Coverage: 1L/10m ²	FC043123-4L
Emer-Proof Primer Porous - 4L Pail Coverage: 1L/6-8m ²	FC000581-4L
Emer-Proof Primer Porous - 15 L Pail Coverage: 1L/6-8m ²	FC000581-15L
Emer-Proof Vapour Control Base 10 litre: Coverage 1L/5m ² (when mixed)	FE200120-10L
Emer-Proof Vapour Control Hardener 10 litre: Coverage 1L/5m ² (when mixed)	FE200121-10L
Emer-Proof Elastic Joint Band Tape 120mm wide x 10m Roll	FC000691-UNIT
Emer-Proof Elastic Joint Band Corner Internal 90° 135mm x 135mm	FC043270-UNIT
Emer-Proof Elastic Joint Band Corner External 270° 135mm x 135mm	FC043275-UNIT
Emer-Proof Butyl Rubber Floor Waste Detailing Collar	FC043129-UNIT

Coverage/yield

Each 25kg kit of Emer-Proof Quick Dry will yield approximately 19.2 litres of mixed product which will cover 12.8m² @ 1.5L/ m² (2 coats).

For applications requiring compliance to AS4858 / AS4564.1, Emer-Proof Quick Dry is to be applied as two (2) coats with a minimum with a minimum total coverage of 1.9 litres/ m² (approx. 10.1m² / 19.2 litres).

Emer-Proof® Quick Dry

Storage

Emer-Proof Quick Dry Part A has a shelf life of 24 months from date of manufacture if kept in the original, unopened packaging.

Emer-Proof Quick Dry Part B has a shelf life of 36 months from date of manufacture if kept in the original, unopened packaging. Do not use if there are lumps in the product.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Emer 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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