

Fast drying flexible two component polymer modified cementitious waterproofing membrane

Uses

Aqua Barrier 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 III 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
- It is fully compatible with polymer modified cement based tiles adhesives, screeds and renders.

Description

Aqua Barrier 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.

Aqua Barrier Quick Dry offers excellent adhesion properties over many primed building surfaces once correctly primed and prepared.

Design Criteria

Aqua Barrier Quick Dry is designed to be applied by thick brush or roller. Aqua Barrier Quick Dry 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.

Properties

Wet form

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

Cured membrane

Elongation:	>250%
Tensile strength:	1.3 MPa
Shore A hardness:	65
Colour:	Grey

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 (certificates pending)

Aqua Barrier Quick Dry meets the requirements of:

- AS/NZS 4858:2004 Wet Area Membrane as a Class III membrane
- AS3740:2010 Waterproofing of Wet Areas Within Residential Buildings

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 Aqua Barrier Quick Dry

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

Application Instructions

Coverage

Aqua Barrier Quick Dry is designed to be applied by brush, roller or airless spray.

In most applications, Aqua Barrier 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

All new concrete surfaces must be allowed to cure for at least 7 days, with a moisture content <5% and have a wood float finish. Steel trowelled finished slabs must be chemically or mechanically abraded prior to commencing waterproofing.

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 silicone 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 Aqua Barrier Quick Dry membrane:

Primer choice is defined by substrate requirements:

- For porous masonry surfaces, Emer-Proof Primer Porous should be applied at around 7m²/L (see TDS for further details)
- For non-porous substrates, such as CFC, wet area timber, ceramic tile, metals and plastics, Emer-Proof Non-Porous Primer should be applied at around 12m²/L (see TDS for further details).

Damp surfaces - entrapped moisture

Seek technical advice from Parchem.

Cracks

Cracks larger than 2 mm or structural shrinkage cracks must be firstly cleaned and any loose material removed then filled with neutral cure construction silicone 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, Corners and Detailing Accessories

The Emer-Proof Elastic Joint Band System has been specifically developed by Parchem 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 etc.), both 270° external and 90° internal corners, an adjustable internal corner as well as three (3) size variations on pipe detailing squares (suitable from 6mm > 150mm pipe diameters).

If being used in tanking and waterproofing applications, the Aqua Barrier Quick Dry Two Part requires a suitable bond breaker at all substrate junctions. Parchem nominates the Emer-Proof Elastic Joint Band System which includes tape, corners and pipe penetration detailing squares or equivalent bond breaking methods compliant with local waterproofing standards and building recommendations.

Mixing

Aqua Barrier 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 Aqua Barrier 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 Aqua Barrier Quick Dry waterproofing membrane that can be used within its working life as per the instructions in this TDS.

Apply the mixed Aqua Barrier Quick Dry across the substrate joins extending approximately 70mm either side of the join. Whilst the Emer-Proof Quick Dry Two Part is still in a wet state install the Emer-Proof Joint Seal Tape, corners and accessories ensuring that all air voids are expelled. Emer-Proof Elastic Joint Band (EJB) Corners should be placed in first followed by the Emer-Proof Joint Seal Tape.

The Emer-Proof Joint Seal Tape, corners and pipe detailing squares can be joined via a 50mm overlap, sandwiching a small amount of Aqua Barrier Quick Dry liquid membrane between the overlapping faces.

In general applications Aqua Barrier 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 1-3 hours between coats.

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.

Emer-Proof® Aqua Barrier™ Quick Dry

Once the waterproofing is completed, do not disturb the area for at least 24 hours. Tiling can commence approximately 24 hours after final Aqua Barrier Quick Dry coat.

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

Aqua Barrier Quick Dry must be installed in accordance with AS3740.

Curing and protection

Aqua Barrier 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 such as Impraboard or Emer-Proof Drain V.

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

Cleaning

Prior to hardening Aqua Barrier Quick Dry can be cleaned from tools and equipment using water. Hardened material will need to be removed via mechanical means.

Splashes of Aqua Barrier 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 Aqua Barrier™ Quick Dry in temperatures above 35°C or below 5°C.

Aqua Barrier™ 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 Aqua Barrier Quick Dry

Part A:	12.5 litre drum
Material code:	FC000584-12.5L

Emer-Proof Aqua Barrier Quick Dry

Part B:	12.5 kg bag
Material code:	FC000585-12.5KG

Coverage/yield

Each 25kg kit of Emer-Proof Aqua Barrier Quick Dry will approximately 19.2 litres of mixed product.

Storage

Shelf Life is 12 months in the original unopened containers stored in cool, dry conditions at temperatures between 5°C and 30°C. Storage above this temperature may reduce storage life.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. 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.



Emer-Proof® is a registered trade mark, and Aqua Barrier™ is a trade mark of Parchem Construction Supplies Pty Ltd



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