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Technical Data Sheet

Emer-Proof 680

Water based, flexible, fast drying urethane modified, waterproofing membrane, for tiled internal wet areas and tiled external areas

USES

Emer-Proof 680 is suitable for waterproofing of internal areas (such as shower recesses, bathrooms, laundries) and for external balcony deck waterproofing applications. Emer-Proof 680 is designed to be tiled over and can be used over concrete, render, rendered brickwork, block work, fibre-cement, Gyprock, and particle board surfaces.

ADVANTAGES

- Easy water clean-up
- Odour free
- Solvent free
- Cement based tile adhesive can be applied over Emer-Proof 680
- Fast drying
- Meets requirements of AS4858:2004

DESCRIPTION

Emer-Proof 680 is a one component, water based, polyurethane modified, flexible, fast drying waterproofing membrane. Emer-Proof 680 can be recoated after 4 - 6 hours @ 20°C, depending on the amount of coats applied and does not require the use of re-inforcement.

DESIGN CRITERIA

Emer-Proof 680 is designed to be applied by roller or brush to achieve a wet film thickness of not less than 1200 microns in two or three coats. The resulting dry film thickness should be approximately 750 - 1000 microns.

Before

After

Emer-Proof 680

PROPERTIES

Data quoted is typical for this product, but does not constitute a specification.

Appearance:	Grey paste
Density:	1.25 +/- 0.05
Re-coat time:	4 - 6 hours @ 20°C
Drying time@ 20°C:	Approx 12 hours
Full cure @ 20°C:	3 days
Dry film thickness:	750 - 1000 microns
Elongation:	>300%

SPECIFICATION CLAUSES

Where so designated on the drawings, surfaces shall have a liquid water based, polyurethane modified, flexible waterproofing membrane applied. The membrane shall be Emer-Proof 680. Areas shall be prepared and the membrane applied in accordance with the current Emer-Proof 680 Technical Data Sheet.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All new concrete surfaces must be allowed to cure for at least 6 weeks and have a wood float finish. Steel trowelled finished slabs must be chemically or mechanically abraded prior to commencing waterproofing.

All rendered surfaces must be allowed to cure for at least 7 days prior to commencing waterproofing. Ensure all rendered surfaces have a wood float finish.

The maximum variation in the plane must not exceed 5 mm in 3 metres for floors and 4 mm in 2 metres for walls.

Fibre cement sheet when used as an underlay or wall / floor material must be a minimum of 6 mm thickness. All fibre cement sheets should be fixed in accordance with the manufacturer's instructions and the relevant standards.

Compressed fibre cement sheets when used as a floor substrate must be 15 mm thick, and when used a wall substrate must be 9 mm thick and must be installed in accordance with the manufacturer's instructions and relevant standards.

Gypsum - plasterboard sheets when used as a wall substrate must be a minimum of 10 mm thick and installed in accordance with the manufacturer's instructions and relevant standards.

All screw / nail heads must be sealed with Emer-Seal PU25/ PU40 and all sheet joints must be covered with a 50 mm wide polyethylene / polypropylene tape.

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

All porous surfaces must be primed with Emer Proof WB Primer prior to application of Emer-Proof 680 to the substrate.

PRIMING

Emer-Proof WB Primer may be applied by brush, roller or spray. The primer will be touch dry in approximately 30 minutes and may be overcoated after 2 hours drying under normal conditions.

MIXING

Emer-Proof 680 is a one component premixed product that does not require mixing.

CRACKS

Small hairline cracks may be filled with the first application of Emer-Proof 680. Cracks larger than 2 mm or structural shrinkage cracks must be firstly filled with a flexible silicone / PU type sealant and then a 50 mm wide polypropylene / polyethylene tape placed over the crack prior to the application of Emer-Proof 680.

RIGHT ANGLE BENDS

Gaps between wall and floor must be sealed with an elastomeric joint sealant such as Emer-Seal PU25/PU40 and allowed to cure before application of Emer-Proof 680.

APPLICATION

Ensure the surface has been appropriately prepared in accordance with Parchem's instructions.

Apply silicone sealant / PU sealant to joints. Apply the first coat of Emer-Proof 680 to the primed surface using a thick brush or roller.

After waiting the required 4 to 6 hours (@20°C) re-caot time, re-apply a second coat of Emer-Proof 680 at 90° to the first coat, ensuring complete coverage achieved and no air bubbles exist.

A third coat may be required if imperfections are present in the membrane.

Conduct a final inspection on the surface of the membrane prior to commencing tiling to ensure no pin holes exist.

Once the waterproofing is completed, do not disturb the area for at least 24 hours. Emer-Proof 680 requires to be applied at a minimum thickness of 0.75 mm of dry film.

Tiling can commence approximately 24 hours after last coat.

Emer-Proof 680 should be installed in accordance with AS3740.

LIMITATIONS

Do not apply Emer-Proof 680 in temperatures above 40°C and below 5°C.

Emer-Proof 680 cannot be used in areas where negative hydrostatic pressure is evident.

Emer-Proof 680 cannot be used in areas of permanent water immersion like swimming pools / spas etc.

CLEANING

Excess Emer-Proof 680, tools and other equipment can be cleaned up using water while the membrane is still wet.

ESTIMATING

SUPPLY

Emer-Proof 680:	15 litre pail

COVERAGE

Emer-Proof 680:	Approx 10 m^2/15 litre (at a 750 - 1000 microns dry film thickness)
Emer-Proof WB Primer:	Approx 10 - 12 m^2/litre

The coverage figures are theoretical – due to wastage factors and the variety and nature of possible substrates, practical coverage figures may be substantially reduced.

STORAGE

SHELF LIFE

12 months if kept in a cool, dry store.

STORAGE CONDITIONS

Storage in dry conditions at temperatures between 5°C and 30°C in the original, unopened containers. If stored at high temperatures, the shelf life may be reduced.

ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

IMPORTANT NOTICE

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