

**Emer-Proof Aqua Barrier Advanced / Emer-Proof Aqua Barrier
Vapour Control Tiled over UV Protected on Aged Uncoated
Substrate Concrete (Off Form, Tilt Up, Pre Cast) [Exterior]**

AU_SV16440

Description
<p>Emer-Proof Aqua Barrier Advanced is a highly flexible Class III, solvent free polyurethane waterproofing membrane designed for a wide range of waterproofing applications in the built environment.</p> <p>Emer-Proof Vapour Control is a water borne epoxy membrane / barrier for porous surfaces.</p> <p>Emer-Proof Tilebond Flex is a premium grade, rubber modified, flexible white cement based tile adhesive.</p>

Summary
<p>Emer-Proof Advanced Waterproofing Membrane System (UV protected) on Aged Uncoated Concrete Substrate, that will be tiled over. Suitable for Balconies, Decks and Roof Top applications.</p>

Substrate And Substrate Preparation	
Substrate Notes:	<p>CONCRETE (Off Form, Tilt Up, Pre Cast)</p> <p>SUBSTRATE DESCRIPTION OFF FORM CONCRETE Off form Concrete is produced by placing suitable forms and shoring to hold the wet concrete into the required shape. Reinforcements are placed within or on the formwork to give concrete its strength. Once the formwork and shoring are removed the result is the off form concrete.</p> <p>TILT UP Tilt Up concrete is derived simply from the method of construction, wall panels are cast on a horizontal surface that then require lifting, and tilting vertically into their final position. Construction is commenced with the laying of the structures foundation and floor slab, wall panels are then cast on the floor one on top of each other in a stack arrangement.</p> <p>PRE CAST Pre Cast concrete are concrete panels that are cast on horizontal vibrating beds that are then cured in racks that are delivered to site that then require lifting, and positioned into their final position.</p>
Substrate Preparation Notes:	<p>PCO018 - OFF FORM, TILT UP, PRE CAST Off Form Concrete should be installed as per AS3610 Control of Concrete Surface Formwork (current edition) and AS 3850.2 Tilt Up Concrete & Pre Cast Elements for use in Buildings (current edition)</p> <p>REMOVE CONTAMINANTS Surfaces must be clean, dry, sound, stable and free of: loose foreign material; existing coatings; laitance; release agents; curing compounds and oil/grease residues.</p> <p>CLEAN Clean the surface thoroughly by water blasting or detergent cleaning, where a commercial cleaner is added to hot or cold water and surface is washed / scrubbed thoroughly with a stiff bristle broom and then rinsed clean with fresh water. This may need to be repeated on extremely dirty surfaces to ensure removal. Ensure that the surface is dry, clean and free from dust. Check for the presence of Release Agents and Bond Breakers by simply splashing water onto the substrate, if water beads on the surface then total removal is mandatory. Where doubt exists always refer to the manufacturer of the Release Agent or Bond Breaker on their recommended practice of removal.</p> <p>CHECK MOISTURE Ensure concrete moisture content is less than 5% as measured with a moisture meter designed for testing in situ concrete to AS1884-2012 and ASTM F2170.</p> <p>REPAIR SURFACE IMPERFECTIONS Cracks larger than 2mm or structural shrinkage cracks must be firstly filled with a flexible polyurethane type sealant such as Emer-Seal Paintable FC and then a 50mm wide polyethylene tape placed over the crack prior to the application of Emer-Proof Advanced. Alternatively the cracks can simply be covered with the Emer- Proof Elastic Joint Band Tape system.</p>

Coating System Summary	
Primer:	AU_DV02760: Emer-Proof Vapour Control
Intermediate:	AU_DV02509: Emer-Proof Elastic Joint Band System
1st Coat:	AU_DV02504: Emer-Proof Aqua Barrier Advanced
2nd Coat:	AU_DV02504: Emer-Proof Aqua Barrier Advanced
Adhesive:	AU_DV02761: Emer-Proof Tilebond Flex
Please refer to the coating system details below	

Coating System			
Coat Type:	Primer	Datasheet:	AU_DV02760 Emer-Proof Vapour Control
Application Methods:	    Airless Spray Brush Roller Other Squeegee, stiff nylon broom		
		Min	Max
	Theoretical Spread Rate *	5	Recommended
	Wet Film Per Coat (microns)	200	
	Dry Film Per Coat (microns)	98	
	Recoat Time **	3 hours	72 hours
Coating Application Details:	<p>MIXING Individually stir each component Base and Hardener to homogenous state using a power stirrer and spiral mixer prior to combining. Ensure the mixing paddle is changed / cleaned before stirring the second part. After stirring, add equal parts 1:1 by volume of the Base and Hardener in a total volume suitable for application within the pot life of the product. Mix for another 3 minutes with a slow speed power stirrer, until a uniform mix is achieved, avoiding aeration of the material. The sides of the container should be then scraped to ensure all material is incorporated and mixed for a further 2 minutes. It is advisable to allow the mixed product to stand for five minutes before application.</p> <p>APPLICATION Apply the Emer-Proof Vapour Control to the surface using a suitable brush and roller. On floors spread the material with a suitable squeegee or stiff nylon broom, working the Emer-Proof Vapour Control into the surface to ensure total absorption into any pin holes and voids. Finish off using a medium to long nap roller. Spray application is also acceptable. Care must be taken to ensure the required application rates are achieved to obtain the minimum wet film thickness per coat of 200 microns. This can be checked using a Wet Film Thickness gauge. If the first coat is to be spray applied an addition of 10% water will assist spraying and penetration. Discard any leftover mixed material once it has exceeded the pot life.</p>		
Coat Type:	Intermediate	Datasheet:	AU_DV02509 Emer-Proof Elastic Joint Band System
Application Methods:	  Brush Other Spatula		
Coating Application Details:	<p>The Emer-Proof Joint Seal Tape, and corners are installed first before the Emer-Proof water based liquid membranes.</p> <p>Step 1: Apply a liberal coat of one of the Emer-Proof 'waterbased' liquid applied membranes to internal and external corner intersections approximately 150mm wide.</p> <p>Step 2: Embed the Emer-Proof EJB corners into the wet membrane, making sure full saturation of the fabric edges using a brush or spatula.</p> <p>Step 3: Measure and cut Emer-Proof Joint Seal Tape for all wall / floor and wall / wall junctions. Ensure that the Emer-Proof Joint Seal Tape is measured to allow for the minimum 50mm overlap onto the Emer-Proof EJB corners.</p> <p>Step 4: As with the corners previously; Apply a liberal coat of the same liquid membrane to the surface of the wall / floor and/or wall / wall junction approximately 150mm.</p> <p>Step 5: Embed the pre-cut Emer-Proof Joint Seal Tape into the wet membrane, ensuring full saturation of the fabric edges. Remove any air pockets, voids or creases that may have occurred during installation by way of brush or spatula.</p>		
Coat Type:	1st Coat	Datasheet:	AU_DV02504 Emer-Proof Aqua Barrier Advanced
Application Methods:	  Brush Roller		
		Min	Max
	Theoretical Spread Rate *	1.3	Recommended
	Wet Film Per Coat (microns)	750	1.3
	Dry Film Per Coat (microns)	500	750
	Recoat Time **	4 hours	500
Coating Application Details:	<p>Emer-Proof Aqua Barrier Advanced membrane should be lightly stirred before use. Install Emer-Proof Elastic Joint Band tape / corners and accessories as required. Apply the first coat of Emer-Proof Aqua Barrier Advanced to the primed surface using a thick brush or roller.</p> <p>A minimum of 2 coats is recommended to be applied. Total Wet Film Thickness = 1.5mm Finished Dry Film Thickness = 1mm</p>		

Coat Type:	2nd Coat	Datasheet:	AU_DV02504 Emer-Proof Aqua Barrier Advanced
Application Methods:	  Brush Roller		
		Min	Max
Theoretical Spread Rate *		1.3	Recommended 1.3
Wet Film Per Coat (microns)		750	750
Dry Film Per Coat (microns)		500	500
Recoat Time **		4 hours	4 hours
Coating Application Details:	Emer-Proof Aqua Barrier Advanced membrane should be lightly stirred before use. After waiting the required 4 hours (@23°C) re-coat time, reapply a second coat of Emer-Proof Aqua Barrier Advanced at 90 degrees to the first coat, ensuring complete coverage is achieved and no air bubbles exist. A minimum of 2 coats is recommended to be applied. Total Wet Film Thickness = 1.5mm Finished Dry Film Thickness = 1mm Once the waterproofing is completed, do not disturb the area for at least 24 hours. Tiling can commence approximately 24 hours after last coat, in which case Emer-Proof Tilebond Flex tile adhesive should be used.		
Additional Coating Details:	A third coat may be required if imperfections are present in the membrane.		
Coat Type:	Adhesive	Datasheet:	AU_DV02761 Emer-Proof Tilebond Flex
Application Methods:	 Trowel		
Coating Application Details:	<p>MIXING The mixing ratio of Emer-Proof Tilebond Flex is 20 kg of powder to 6 litres of water. Pour 6 litres of clean water into a drum and then gradually add the Emer-Proof Tilebond Flex while mixing continuously until a smooth lump free mix is obtained. Always add powder to liquid. Allow the mix to stand for 5 minutes, re-stir and then apply the adhesive onto the substrate.</p> <p>APPLICATION All tiling should be carried out in accordance with AS3958.1:2007 - A Guide to Tiling</p> <p>Once the surface has been appropriately prepared in accordance with Emer instructions, then apply the adhesive onto the substrate using a notched trowel.</p> <p>For floor tiling use a 10mm x 10mm square notched trowel for tiles up to 300mm x 300mm. For tiles 300mm x 300mm and larger, use a 12mm x 12mm square notched trowel. For mosaic tiles use a 6mm x 6mm square notched trowel. For wall tiling use a 6mm x 6mm square notched trowel for tiles up to 150mm x 150mm. For larger tiles than 150mm x 150mm use a 10mm x 10mm square notched trowel.</p> <p>Emer-Proof Tilebond Flex should be applied into the substrate at a rate of 1m² at a time. Application rates greater than this can result in the adhesive skinning. Once the adhesive skins, do not lay tiles into it, but remove it and apply fresh adhesive.</p> <p>When placing the tiles into the adhesive, press them in by sliding the tile back and forth at least 20mm across the trowel lines. Ensure no voids occur and full coverage of adhesive is under the tiles.</p> <p>For tiles 300mm x 300mm or larger, or tiles with lugs, grooves or uneven backing, it may be required to butter the back of the tile with the adhesive in addition to trowelling the adhesive onto the substrate. Apply a 1mm coating across the whole back of the tile.</p> <p>The final bed thickness of the adhesive should be at least 2mm for wall tiling and 3mm for floor tiling.</p> <p>Once the tiling is completed do not disturb the tiled surface for at least 16 - 24 hours at 20°C. Emer-Proof Tilebond Flex can be directly adhered to Emer-Proof Advanced and Emer-Proof Quick Dry membranes.</p>		
Coating System Notes:	* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness. ** Recoat times are quotes for 23°C and 50% relative humidity, these may vary under different conditions.		

Comments

- Waterproofing membrane system should be installed as per AS 4654.2 2012 Waterproofing membranes for external above-ground use.
Not designed for immersed areas.
Emer-Proof Aqua Barrier Advanced is UV resistant but is not designed for use as a long term exposed membrane, stand alone product.
Application of all liquid applied membranes and primers should always refer to the surface temperature conditions before commencing and not just ambient temperatures. (There are limitations to how hot/cold the surface temperature can be, when applying a liquid based membrane or primer).
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 35°C.
Emer-Proof Advanced should not be applied if the surface temperature is below 10°C or above 35°C.
Emer-Proof Advanced should not be applied externally if it is raining or if rain is imminent.

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