

## CLASS III Water based flexible SBR Waterproof Under Tile Membrane

### DESCRIPTION

WP-1 is a waterborne flexible SBR waterproof membrane designed for use under tiled finishes that is capable of accommodating expected structural movement. It complies with the performance requirements of Building Code of Australia 2007 Clause FP1.4 and FP1.7 (Volume 1 – Class 2 to Class 9 buildings) and P2.2.2 and P2.4.1 (Volume 2 – Class 1 and Class 10 building Housing Provisions). May be used under cement based tile adhesives that meet the requirements of Australian Standard 2358. VOC Content of WP-1 is below the maximum VOC Content for Architectural and Interior Sealants as required by Green Star Office Design V2, V3, Office Interiors V1.1, and APAS D181.

### FEATURES & BENEFITS

- ◇ Low VOC content
- ◇ Class III membrane to AS4858
- ◇ Accommodates cracking in substrates
- ◇ High adhesion to a wide variety of substrates
- ◇ Cures to a textured finish
- ◇ Compatible with ACT tile adhesives
- ◇ Premixed & Fast Curing
- ◇ User Friendly
- ◇ Infused Primer Technology (IPT)
- ◇ Requires 12mm bond breaker

### SUITABLE FOR

- ◇ Shower recesses
- ◇ Bathroom floor areas
- ◇ Laundries
- ◇ Kitchens
- ◇ Balconies
- ◇ Existing tiles
- ◇ Steel (suitably primed)
- ◇ Swimming Pools\*
- ◇ Concrete, cement render
- ◇ Fibrous cement sheeting
- ◇ Hardie/CSR sheet flooring
- ◇ Brick
- ◇ Light weight aggregate block
- ◇ Plasterboard, MDF
- ◇ Plywood sheet flooring

### COVERAGE

15kg bucket will cover approximately 12m<sup>2</sup> after two (2) coats.

### PRIMING

In most cases priming is not required as WP-1 has Infused Primer Technology (IPT).

Impervious substrates can be primed with ACT PR-1.

Porous and dusty substrates can be primed with ACT PR-2.

If in doubt, contact ACT Australia Technical Services.

### DRYING

Allow 1st coat to cure for minimum 2 hours at 25°C. 2nd coat will require 24 hours to cure prior to commencement of tiling or screeding. Cooler temperatures will prolong curing times. Ensure there is airflow in area to assist curing.

### SHELF LIFE

In unopened original packaging for up to 12 months when stored in a cool, dry environment and out of direct sunlight.

### SUBSTRATE PREPARATION AND APPLICATION:

- ◇ The substrate should have a light even texture. Masonry should be flush pointed and all defects in existing surfaces made good. Ensure all high points and protrusions are ground off. Substrate must be clean and dry, free from dust and loose material.
- ◇ Due to the wide variety of substrates available, it is always advisable to check adhesion by laying a test sample before commencing the job. Substrates that are particularly porous and/or dusty should be primed with ACT PR-2 water based primer. Blow-holes, areas of honeycombing, etc., to be filled and the surface brought back to an even profile with a suitable repair render. Trowel to a smooth even finish and allow to cure.
- ◇ Apply bond breaker fabric into internal angles/corners (wall and floor junction) and vertical angles/corners (wall and wall junction) as per standard. Tiling over expansion joints and construction joints must have tiles placed in such a manner that the joint (extra wide grout line) can be filled with elastomeric sealant. After application of bond breaker fabric, apply 1st coat of WP-1 using a brush. Work from corners towards exposed areas. Allow to cure.
- ◇ Apply a 2nd coat of WP-1 at right angles to the previous application using a brush or roller. Allow to dry before the application of a screed or ACT approved tiling adhesive such as ADH-55.

If pond testing is required, allow to dry for a minimum 24 hours (depending on weather conditions) to ensure adequate curing. Pond test with water to a depth of 30mm for 2 hours.

### SAFETY DIRECTIONS

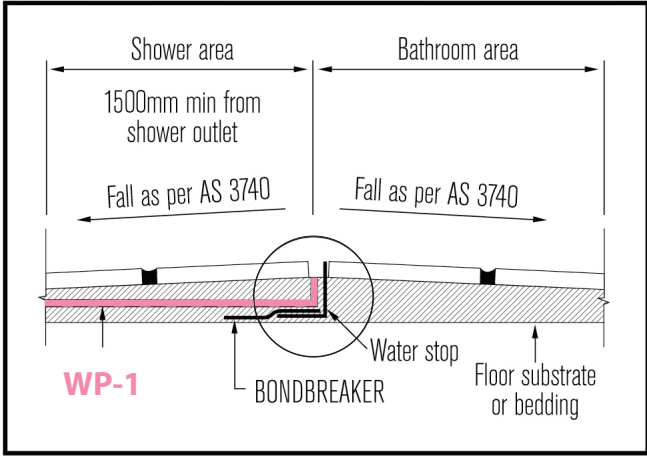
ACT Australia supports best practice in material handling. Provide good ventilation - open doors and windows and use circulating fans.

Appropriate gloves, masks, safety glasses and protective clothing should be worn. If product comes in contact with skin it can be washed off with water before drying. If swallowed drink plenty of drinkable water and seek medical advice, do not induce vomiting. In case of contact with the eyes, rinse with clean water or eye wash solution and seek medical advice.

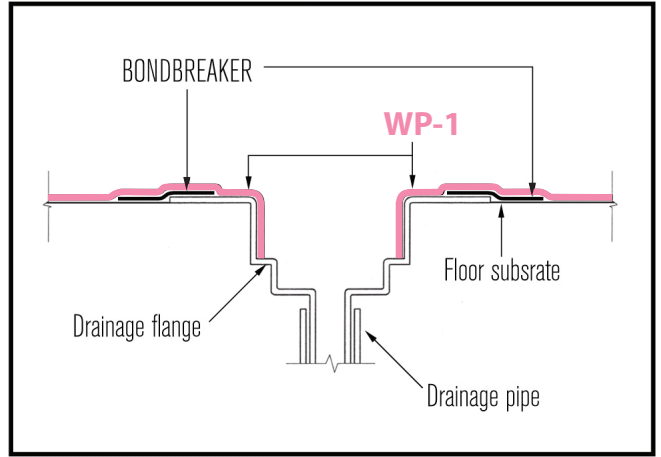
### LIMITATIONS

- ◇ Do not apply if the temperature is below 7°C or relative humidity is above 85% or if rain is imminent
- ◇ Do not apply WP-1 to wet substrates. The moisture content of the substrate should be less than 14%. Check with a moisture meter if unsure.
- ◇ If in doubt, contact ACT Australia Technical Services for further information and advice.

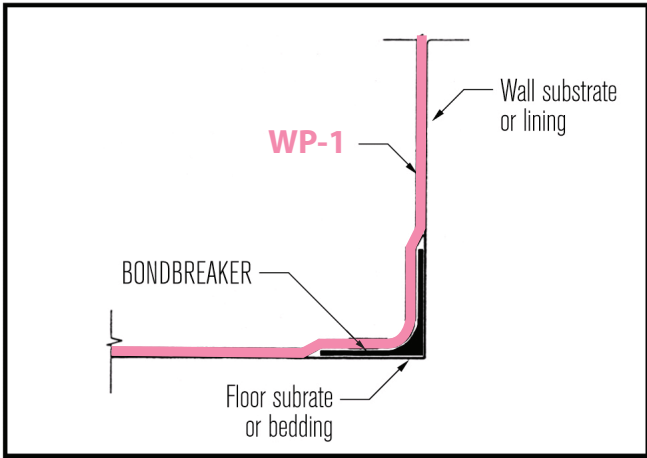
Technical Data			
Number of Coats:	2	Curing time:	7 days
Spreading Rate Per Coat:	2m <sup>2</sup> /L	Colour:	Pink
Wet Film Per Coat:	500 microns	Thinner:	Water
Recoat (@25oC):	2-4 hours	Shelf Life:	12 months
Properties	Test Method	Test Results	
Adhesion: Concrete Fibre Board Plywood Lightweight block Brick Steel	ASTM D4541	1.0-1.5N/mm <sup>2</sup> 2.0N/mm <sup>2</sup> 1.8N/mm <sup>2</sup> 0.5N/mm <sup>2</sup> (block failure) 2.5N/mm <sup>2</sup> 1.6-3.0N/mm <sup>2</sup>	
Tensile Strength	ASTM D412	1.6-1.9 mPa	
Elongation	AS 4858:2004	317%	
Water Vapour Transmission	ASTM E96	1g/m <sup>2</sup> /24hr	
Mandral bend Test (6mm diameter)	180°around cylindrical mandral	Pass – no failure	
Hardness	ASTM D2240	29A	
Chemical Resistance	Test strips immersed for 7 days before visual examination:	317%	
	Dilute Acids Dilute Alkali Salt Solutions	Good Good Good	
Water Absorption	AS 3558.1	2.73%	
Volatile Organic Compound (VOC) Content	SCAQMD 304-91	28 g/L	



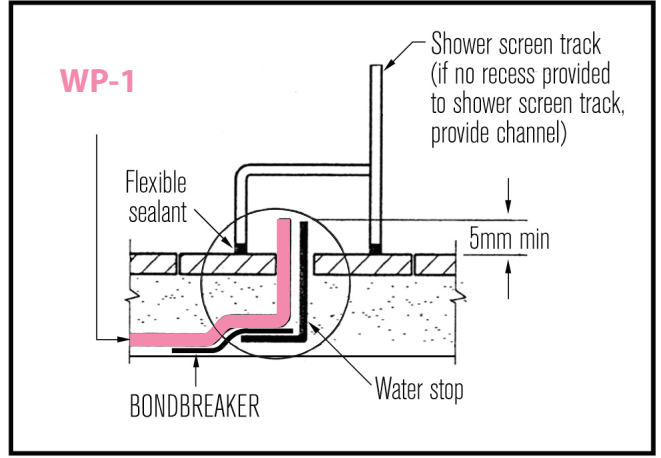
**TYPICAL TERMINATION OF MEMBRANE FOR UNENCLOSED SHOWERS**



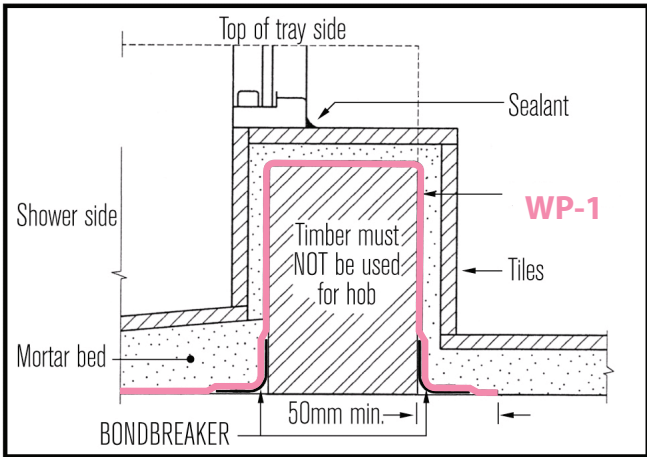
**TYPICAL MEMBRANE TERMINATION AT DRAINAGE OUTLET**



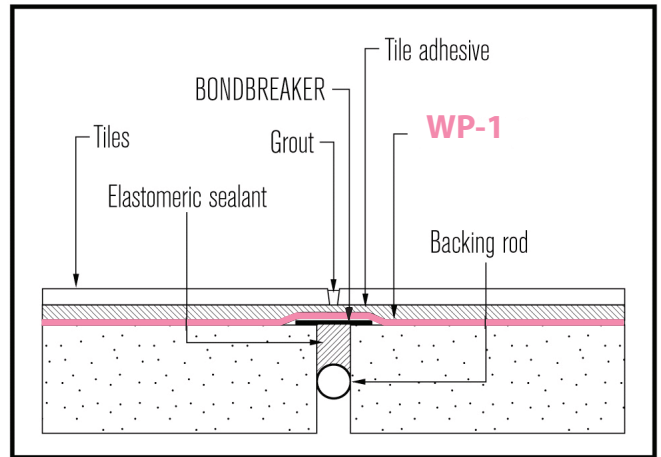
**TYPICAL BOND BREAKER DETAIL**



**TYPICAL HOBLESS CONSTRUCTION**



**TYPICAL HOB CONSTRUCTION INTERNAL MEMBRANE**



**TYPICAL CONSTRUCTION OVER EXPANSION OR CONSTRUCTION JOINTS**