

# WP-1 "Pink"

Water Based Flexible SBR Waterproof Under-tile Membrane

CLASS III

## Product Data Sheet

February 2025



### DESCRIPTION

WP-1 is a waterborne flexible SBR waterproof membrane designed for use under tiled finishes that are 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
- Bathrooms
- Laundries & Kitchens
- Balconies
- Existing tiles
- Steel (suitably primed)
- Swimming Pools\*
- Concrete, cement render
- Fibrous cement sheeting
- Hardies/CSR sheet flooring
- Brick
- Light weight aggregate block
- Plasterboard, MDF
- Plywood sheet flooring

### COVERAGE

1 litre of ACT WP-1 will cover approx. 1m<sup>2</sup> after two (2) coats.

### PERFORMANCE DATA

Property	Test Method	Test Results
<u>Adhesion</u>		
Concrete:	ASTM D4541	1.0-1.5N/mm2
Fibre board:		2N/mm2
Plywood:		1.8N/mm2
Lightweight block:		0.5N/mm2
Brick:		2.5N/mm2
Steel:		1.6-3.0N/mm2
Tensile Strength	ASTM D412	1.6-1.9 mPa
Elongation	AS 4858:2004	317%
Water Vapour Transmission	ASTM E96	1g/m2 /24hr
Mandrel Bend Test (6mm diameter)	180° around cylindrical mandrel	Pass – No failure
Hardness	ASTM D2240	29A
<u>Chemical Resistance</u>	Visual examination after 7 days immersion	
Dilute Acids		Good
Dilute Alkali		Good
Salt Solutions		Good
Water Absorption	AS 3558.1	2.73%
VOC Content	SCAQMD 304-91	28g/L

### TECHNICAL DATA

Number of coats:	2	Recoat (25°C.):	2-4hrs
Spreading rate per coat:	2m <sup>2</sup> /L	Curing time:	7 days
Wet film per coat:	500 Microns	Thinner:	Water

### SUBSTRATE PREPARATION

Substrates for waterproofing should be clean and dry, free from dust, wax, oil, grease, laitance, curing compounds, paint (including overspray), coatings and all contaminants which may cause adhesion failure.

Ensure any high points in S/C screeds and concrete slabs are removed to leave a flat true surface. Any voids should be patched with suitable material and allowed to dry fully prior to applying **WP-1 PINK**.

Fibrous Cement sheeting and Waterproof boards, such as Scyon Secura and Cemintel Constructafloor should be sponged down with clean water to remove dust prior to applying first coat of **WP-1 PINK**. If priming is preferred, use **PR-1** impervious substrate primer for non-porous substrates and **PR-2** water-based primer for substrates that are particularly porous and/or dusty.

Due to the wide range of substrate product types on the market, it is recommended to test particular substrate for adhesion by applying a test patch prior to commencing the project.

### BOND BREAKER

Use **WP MS-PU** Sealant as bond breaker to internal corners and angles including, wall and floor junctions and around all extrusions and floor wastes. Using quality brush, apply the first coat of **WP-1 PINK** to the bond breaker areas.

WP-1 Bandage can be used as reinforcement fabric if required. Wet-embed WP-1 Bandage into first coat of WP-1 PINK, ensure WP-1 Bandage is thoroughly wetted out. Finish the first coat of WP-1 PINK to the remaining area as per "Application" section below. Use brush to apply 2nd coat of WP-1 PINK to WP-1 Bandage.

### APPLICATION

Apply 1st coat of **WP-1 PINK** using a quality brush to detail areas i.e. around extrusions, internal corners, etc. ensuring good coverage and wet film thickness of approximately 0.5-1mm. Allow the first coat to dry for at least 2 hours before applying 2nd coat of **WP-1 PINK**. Allow **WP-1 PINK** to fully dry (check internal corners etc.) prior to application of **SCR-100** screed or ACT Australia suitable tile adhesive. Contact ACT Australia Technical Services for tile adhesive recommendation.

Where waterproofing membrane is required over engineered screeds (such as **SCR-100**) as per Australian Standards, ensure that screed is fully dry (refer to Limitations section) and dust-free. Then repeat the 2-coat application process of **WP-1 PINK**. Ensure that **WP-1 PINK** is fully dry before tiling.

### 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.

### REQUIRED THICKNESS

Required minimum cured film thickness is 0.6mm. In normal circumstances, it can be achieved with 2 coats of WP-1 PINK. However, depending on substrate types, quality of substrate preparation, application techniques etc., additional coats might be required.



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### CLEAN UP

WP-1 can be removed from the surface using a damp cloth while the product is wet. Tools and equipment can be scrubbed clean with warm water prior to drying.

### SHELF LIFE

In unopened original packaging for up to 12 months when stored in a cool, dry environment off the floor.

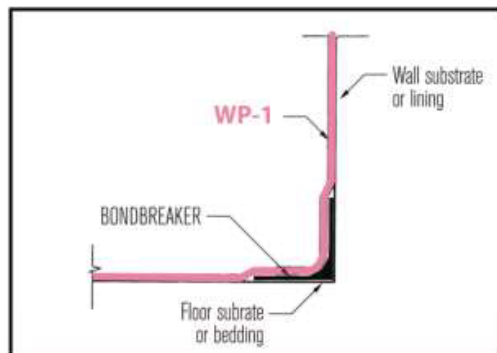
### SAFETY DIRECTIONS

ACT Australia supports best practice in material handling. Appropriate gloves, dust masks, safety glasses and protective clothing should be worn. If product comes in contact with skin, wash off with soapy water. Avoid inhaling dust by wearing appropriate dust mask. If swallowed, drink plenty of drinkable water and seek medical advice. In case of contact with the eyes, rinse with clean water or eye wash solution and seek medical advice.

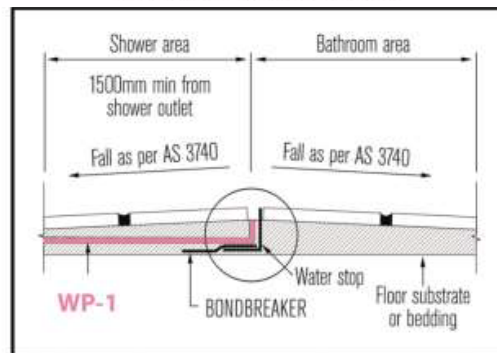
### LIMITATIONS

- Do not apply in temperatures below 7°C or relative humidity is above 85%.
- Do not apply if rain is imminent.
- Do not apply WP-1 to wet substrates. The moisture content of the substrate should be less than 13%. Check with a moisture meter if unsure.
- If in doubt, contact **ACT Australia Technical Services** for further information and advice.

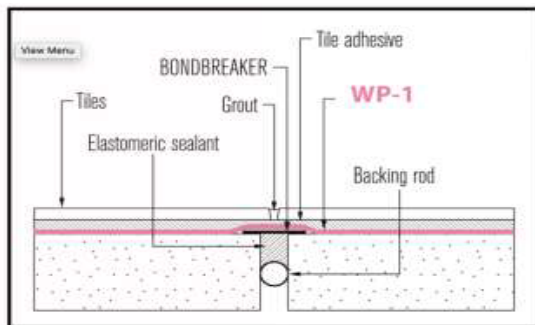
\*Contact ACT Australia for system recommendation



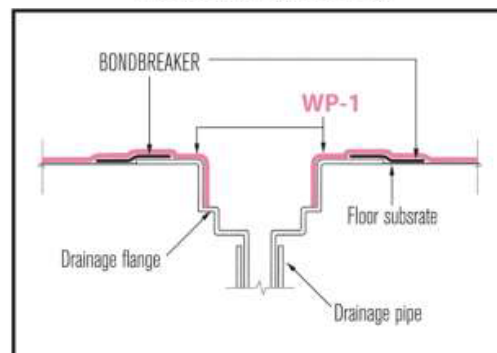
TYPICAL BOND BREAKER DETAIL



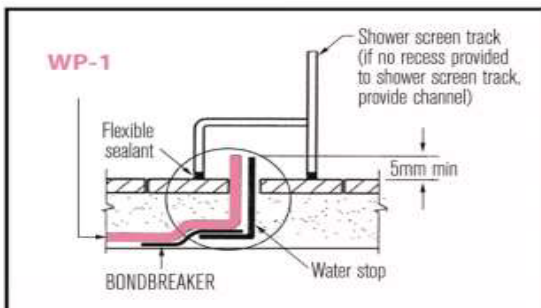
TYPICAL TERMINATION OF MEMBRANE FOR UNENCLOSED SHOWERS



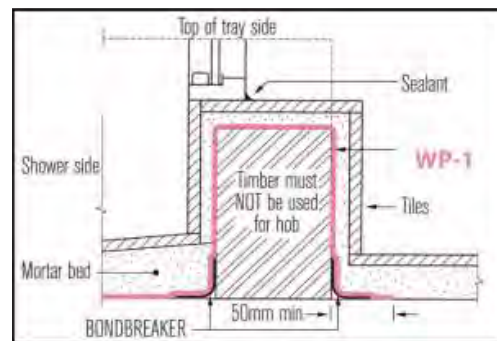
TYPICAL CONSTRUCTION OVER EXPANSION OR CONSTRUCTION JOINTS



TYPICAL MEMBRANE TERMINATION AT DRAINAGE OUTLET



TYPICAL HOBLESS CONSTRUCTION



TYPICAL HOB CONSTRUCTION INTERNAL MEMBRANE



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