

WPM-440 WATERPROOFING MEMBRANE

A highly flexible, one-part water based waterproofing membrane suitable for internal and external wet areas.

Where To Use

- > Internal and external wet areas with adequate drainage
- > Showers, bathrooms, balconies when over tiling with cement based ceramic tile adhesives
- > Use in commercial and residential applications
- > UV stable - Suitable for exposed areas not subject to heavy foot traffic
- > Excellent compatibility with polymer modified cement based ceramic tile adhesives
- > Not suitable for permanent immersion

Product Benefits

- > Class III flexibility - Eliminates the need for a reinforcing layer. Meets the requirements of AS4858 Wet Area Membrane - Class III.
- > Low VOC - Low solvent levels ensure WPM-440 is safe to use inside even in confined areas. Low VOC formulation maintains air quality.
- > Versatile - Can be used over a number of substrata including cement renders, screeds, properly prepared cladding materials and metals suitable for use in wet areas.
- > Water-based - Apply straight out of the tub. Wash up in water immediately after use.

Surface Preparation

Prior to application, ensure surface are dry, clean and free from any contaminants which may adversely affect adhesion including but not limited to dust, dirt, laitance, grease, wax and oil. Any holes, voids or imperfection should first be filled with a suitable filler/mortar and allowed to thoroughly dry. All sharp protrusions capable of puncturing the crew membraned must be sanded or removed prior to application.

- > **Concrete:** Ensure new concrete slabs have been allowed to cure for a minimum 48 days to allow for curing/settling. Surface must be clean, free of contaminants and dry. Smooth (steel float etc.) finishes must be lightly abraded and swept clean prior to application of WPM-440.
- > **Cement renders and screeds:** Renders and screeds must be allowed to cure for a minimum of 7 days.
- > **Metal surfaces:** All metal surfaces should be entirely free from signs of rust/corrosion prior to application of WPM-440. WPM-440 should not be used as corrosion protection on exterior metal surfaces. Ensure exposed metal surfaces are correctly treated with a specialty corrosion/rust protective coating prior to the application of WPM-440.
- > **Fibre-cement sheet and other building boards:** Use wet area grade fibre-cement sheet and building boards only.
- > **Plywood:** Use PAA branded, marine grade plywood or wet-area plywood only. Not recommended for use in external applications.
- > **Falls to drain in wet areas and balconies:** In wet areas and balconies, it is important that all areas fall to the drain outlet. The fall should exceed 12.5mm per metre. If no fall exists, a cement/sand screed should be formed to create one.
- > **Bond breakers:** Install either silicone or flexible bond breaking tapes (min. 12 mm) to joints and junctures

Priming of Substrate

Priming is a critical component of the waterproofing process. Prime with a single coat of Macprime HP and allow to dry prior to application of WPM-440. Depending on weather conditions and substrate porosity, drying of the primer coat may take between 30-60 minutes at 20 deg. C with 50% RH.

Prime exposed metal with a suitable metal primer and PVC with a solvent based primer.

Sheet Joints, Junctions and Intrusions

- > **Wall/floor:** After primer has dried, apply a 16 mm bead of neutral cure silicone to the junction between the two surfaces. Smooth the silicone to a neat fillet ensuring the silicone extends 8 mm up the wall and 8 mm

onto the floor. All to dry prior to application of first coat of WPM-440.

- > **Sheet joints:** After primer has dried, apply a 50 mm polyurethane bond breaking tape to the sheet joint and press firmly into place. The use of a bond breaking tape will ensure the membrane will not rupture with movement.
- > **Intrusions:** WPM-440 must be lapped to all surface intrusions such as waste outlets in accordance with AS 3740.

Application - Walls

- > Apply WPM-440 to walls with a brush or roller (8-12 mm pile) ensuring consistent coverage with a wet film thickness of approximately 0.8 mm. Allow to dry approx. 2-3 hours at 23 deg C , 50% RH.
- > Apply a second coat of WPM-440 in the opposite direction to the first, ensuring a wet film thickness of 0.8 mm has been achieved.
- > Apply at least 100 mm up all perimeter walls and 100 mm beyond shower rose outlet.
- > Wet material will shrink back as it dries. Total dry film thickness for walls should be minimum 0.8 mm.

Application - Floors

- > Apply WPM-440 to surface with a brush or roller (8-12 mm pile) ensuring consistent coverage with a wet film thickness of approximately 0.8 mm. Allow to dry approx. 2-3 hours at 23 deg C , 50% RH.
- > Apply a second coat of WPM-440 in the opposite direction to the first, ensuring a wet film thickness of 0.8 mm has been achieved.
- > Apply at least 100 mm up all perimeter walls and 100 mm beyond shower rose outlet.
- > Wet material will shrink back as it dries. Total dry film thickness for floors should be minimum 1.0 mm.

Application - Outlets

- > Apply WPM-440 over surrounding floor area and a minimum of 30 mm down the waste outlet pipe.

Recommend Coating Thickness

	COATING THICKNESS		DRY FILM THICKNESS (2 COATS)	THEORETICAL COVERAGE		PER
	WET	DRY		PER COAT	2 COATS	
WALLS	0.4 mm	0.6 mm	0.8 mm	48 m ²	24 m ²	15 Litre
FLOORS	0.6 mm	0.8 mm	1.2 mm	32 m ²	16 m ²	15 Litre

Technical Data

Appearance	Light blue liquid of medium/high viscosity
Specific Gravity	1.3 approx.
Tensile strength (7days dry)	2.23 MPa
Elongation at break (7 days dry)	437%
Resistance to cyclic movement (50 cycles)	Pass - No tears, crazing or ruptures
VOC	< 30 grams per litre
Classification	AS/NZS 4858 Wet area membrane Class III

Wash Up

Clean tools and equipment immediately after use with clean water.

Packaging

WPM is supplied in 5 and 15 litre plastic pails.

Safety

WPM-440 is classified as non-dangerous however prolonged exposure may cause skin irritation. Refer to MSDS for further details.

IMPORTANT NOTE:

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