

TECHNICAL DATA – WPM

WPM

Waterborne flexible waterproof membrane

DESCRIPTION:

RLA WPM is a waterborne flexible waterproof membrane designed for use under tiled finishes that is capable of accommodating expected structural movement. **RLA WPM** is a certified Class III membrane and is compliant to AS4858:2004: “Wet Area Membranes”, when applied in accordance to AS3740:2010 “waterproofing Wet Areas in Residential Buildings”. It is available in grey.

FEATURES AND BENEFITS:

- Permanently flexible
- Class III membrane certified to ASTM 4858:2004 wet area membranes when applied in accordance to AS3740:2010
- Low VOC content
- Single pack no mixing
- Excellent adhesion to a wide variety of substrates
- Safe and easy to use
- Quick Drying
- Fibre Reinforced
- Designed for use with a bond breaker

AREAS OF APPLICATION:

For use in commercial, residential buildings in internal wet areas such as bathrooms, kitchens, laundry's, balconies, shower recesses.

Acceptable Substrates

- Concrete after curing period of 28 days
- Masonry / render after curing period of at least 7 days
- cement sheeting / underlay / external weatherboard / blue board
- pre-cast concrete once release agent has been removed/ dissipated
- Wet area plasterboard / Villaboard
- Structural Plywood Type A (PAA JAS-ANZ)
- Brickwork ,Hebel (aggregate block)

TECHNICAL DATA – WPM

PRODUCT DATA	
Colour	Grey
Packaging	15LTR
Specific Gravity	1.14 g/cm ³
Elongation	500% at break
Classification	Class III High Extensibility
Solids W/W	60%
WVT	0.6g/m ² /24hrs
Final Drying Time	24 hr @23°C & 50% RH

APPLICATION DETAILS:

Surface preparation

All surfaces to be waterproofed must be firm, clean, dry, sound and suitable to accept a liquid membrane. All contaminants such as grease, oil, wax, curing compounds, dust, droppings, loose materials, paints, plaster must be removed. Fibrous cement sheeting, wet area plasterboard must be fixed in accordance with manufacturers installation instructions.

Mortar beds must be suitably graded to provide adequate falls to minimize water ponding, and allow water shedding to drains.

Concrete must be allowed to cure for at least 28 days and cement render / sand cement screeds must be allowed to cure for at least 7 days prior to application of **RLA WPM**. Porous substrates must be primed with **RLA Uniprime**. Damp touch dry substrates must be primed with **RLA Moisture Seal**. If a vapour barrier is required to protect against hydrostatic pressure, 2 coats of **RLA Moisture Seal** must be applied. Failure to do so may result in poor adhesion and subsequent delamination.

Bond Breaker

Bond breakers are required at all wall/floor, hob/wall, junctions, and at all movement joint (wall/wall) where the membrane is bonded to the substrate. The Bond breaker shall be of the type compatible with class III flexibility membranes. Only RLA Tile and Stone neutral cure silicone, RLA Fillet and Joint Seal and RLA Peel N Stick Tape, or an appropriate proprietary bond breaker tape specified for under membrane application should be used.

RLA Tile and Stone silicone sealant or RLA Fillet Joint Seal should be applied to produce 12mm x 12mm minimum coved bead over inter planar joints .

Bond breaker profile must be a minimum of 6mm in depth at the midpoint of the joint. If any cracks in the substrate are evident, grind out the crack to a width at least 6mm and fill with a neutral cure silicone and allow too cure.

Apply silicon or bond breaker tape over the entire crack to isolate from the membrane. If applying membrane over Hardies flooring systems, follow Hardies recommendations for fixing and sealing of expansion joints. Apply Silicone to all drainage outlets, flanges, water stops etc.

TECHNICAL DATA – WPM

Dedicated Expansion Joints must be isolated from the membrane using RLA Peel N Stick Tape ensuring at least 12mm either side of the crack, and covering the entire length and width of the joint

APPLICATION OF MEMBRANE:

All areas to receive membrane must be primed using the appropriate primer. **RLA WPM** can be applied by brush roller or trowel in multiple coats.

Apply **RLA WPM** to the wall /wall joints applying material at least 100mm either side of joint and in the case of a designated shower area the total wall area up to rose height.

Waterproof wall joints to 1800 mm from the finished floor level, and a minimum width of 40 mm either side of the junction.

Seal all tap, shower rose, and bath spout penetration. All floor/wall joints should be waterproofed to a minimum of 40 mm either side of junction, and 150mm outside of the shower.

Once the first coat has dried, apply subsequent coats at right angles to the first coat

APPLICATION RATES:

Wall areas:

Apply a minimum of 2 coats at a **total rate** of 0.9 Litre/ m² to achieve a dry film thickness (DFT) of 0.5mm.

Floor Areas:

Apply a minimum of 2 coats at a **total rate** of 1.5 Litre /m² to achieve a dry film thickness (DFT) of 0.9 mm.

Avoid applying membrane if rain is imminent.

Drying time:

Allow 2- 4 hrs drying time between coats depending on ambient conditions.

In cooler temperatures and high humidity, a longer curing time will be required to achieve a cured film between coats. Allow 48 hrs to dry prior to tiling. Allow longer in adverse conditions

	Wet film/coat	Dry film/coat	Total DFT
walls	0.45 mm	0.25 mm	0.5 mm
Floors	0.75 mm	0.45 mm	0.9 mm

TILING OVER THE MEMBRANE:

TECHNICAL DATA – WPM

Adhere tiles using a cement based 1 or 2 part adhesive. RLA Group recommends **RLA Unigrip, RLA Lite or RLA Mastik** Tile Adhesives.

RECOATING & REPAIR:

The surface must be clean and free of all adhesive residues, surface dust, or any other contamination. Wash down with appropriate cleaner and flush with fresh water, and allow to dry. Loose or damaged membranes must be cut to a clean adhered edge and removed. Any exposed substrate must be primed. Apply 2 coats of membrane to the damaged area as per the coverage instructions ensuring a complete overlap of a minimum of 100mm either side of damaged area.

LIMITATIONS:

RLA WPM:

- is not designed to stop a hydrostatic head of water pressure
- Must not be used over damp, wet or contaminated substrates
- Must not be applied if it is raining or rain is imminent.
- is not a trafficable surface
- should not be applied where the surface temperature is below 10°C or greater than 35°C
- Is not suitable for direct UV exposure
- Must not be applied directly over protective coatings

CLEAN UP:

Clean tools and equipment with warm water and detergent while the membrane is still wet

PACKAGING:

RLA WPU is available in 15ltr plastic pails

COVERAGE:

Wall area 0.7 ltr /m² (DFT 0.5 mm)
Floor areas 1.5 ltr /m² (DFT 0.9 mm)

SHELF LIFE:

12 months in unopened containers when stored in a cool dry and weatherproof environment

TECHNICAL DATA – WPM

AVAILABILITY:

RLA WPM is available Australia wide through the RLA Group distributor network. Please contact RLA Group 1800 242 931 to find out where your nearest stockist will be.

TECHNICAL SUPPORT:

RLA Polymers manufactures a comprehensive range of high quality, high performance construction products. In addition, RLA Polymers offers technical support and on-site advice to specifiers, end users and contractors. Please contact your RLA Polymers sales representative or RLA Head Office for this service

Product:	WPM
Issue Date:	MAR 19
Issue No:	D01
Item Code:	14510

DISCLAIMER

The information and any recommendations relating to the application and end-use of all RLA products are provided in good faith based on RLA's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by RLA. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.