

RLA WPU

Polyurethane Waterproofing Membrane



DESCRIPTION:

RLA WPU is an elastomeric one-part polyurethane/Acrylic fibre reinforced water-based membrane developed as a high-performance internal/ external membrane for most general waterproofing applications.

It is suitable for external applications where a UV stable, occasional trafficable membrane is required.

RECOMMENDED USE:

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

FEATURES & BENEFITS:

- ✓ Tough, flexible film when cured
- ✓ Class III membrane certified to ASTM 4858:2004 wet area membranes when applied in accordance with AS-3740:2010
- ✓ Low VOC content
- ✓ Single pack no mixing
- ✓ Excellent adhesion to a wide variety of substrates
- ✓ Safe and easy to use
- ✓ UV stable for external applications
- ✓ Can handle light maintenance traffic once fully cured
- ✓ Designed for use with a bond breaker

INTERNAL & EXTERNAL USE

Please contact RLA Technical department for further details.

SURFACE PREPARATION:

All surfaces to receive RLA WPU waterproof membrane must be firm, clean, dry, sound, and suitable to accept a liquid membrane.

All contaminates such as grease, oil, wax, curing compounds, dust, droppings, loose materials, paints, and plaster must be removed.

Fibrous cement sheeting and wet area plasterboard must be fixed by the manufacturer's installation instructions.

Mortar beds must be suitably graded to provide adequate falls to minimise 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 before applying RLA WPU. 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.

APPLICATION:

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

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

Waterproof wall joints to 1800 mm from the finished floor level and a minimum width of 40 mm on either side of the junction. Seal all tap, shower rose, and bath spout penetration. All floor/wall joints should be waterproof to a minimum of 40 mm on either side of the junction and 150mm outside the shower.

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

BOND BREAKER:

Bond breakers are required at all wall/floor, hob/wall, junctions, and all movement joints (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 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 covered bead over inter planar joints.

The 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 of at least 6mm, fill it with a neutral cure silicone, and allow it to cure.

Apply silicon or bond breaker tape over the entire crack to isolate it from the membrane.

If applying membrane over Hardie flooring systems, follow Hardie's recommendations for fixing and sealing expansion joints.

Apply Silicone to all drainage outlets, flanges, water stops etc.

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

APPLICATION RATES:

FLOORS & WALLS:

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

WPU	WET FILM	DRY FILM	TOTAL DFT
1 COAT	0.75mm	0.45mm	0.45mm
2 COATS			0.9mm

DRYING TIMES

Allow 12hrs drying time between coats depending on ambient conditions.

A longer curing time will be required in cooler temperatures and high humidity to achieve a cured film between coats.

Allow 48 hrs to dry before tiling.

Allow longer in adverse conditions.

TILING OVER WPU :

Allow a minimum of 24 hours after the final coat to cure.

Adhere tiles using a cement-based one or 2-part adhesive.

RLA Group recommends [RLA Unigrip](#), [RLA Lite](#) or [RLA Mastik](#) Tile Adhesives.

If other coverings are to be used, a protection board or sheet over the cured membrane is recommended to protect film damage from consequent trades until a screed or finished covering/floor system is applied before proceeding.

RECOATING & REPAIRS:

The surface must be clean and free of all adhesive residues, surface dust, or other contamination.

Wash down with appropriate cleaner, 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 the membrane to the damaged area per the coverage instructions ensuring a complete overlap of a minimum of 100mm on either side of the damaged area.

PRODUCT DATA:

Appearance	GREY
Packaging	15LTR
Specific Gravity	1.26g/cm³
Elongation	450% at break
Classification	Class III High Extensibility
Volume Solids	60%
MVTR	3.15g/m²/24hrs
Tensile Strength	5.2 MPa
Final Drying Time	24 hr @ 23°C \$ 50% RH

LIMITATIONS:

- 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 externally if it is raining or rain is imminent.
- Must not be used as a wearing surface for heavy foot or vehicle traffic
- Should not be applied where the surface temperature is below 10°C or greater than 35°C

CLEAN UP:

Clean tools immediately after use with warm soapy water while the membrane is still wet.

SHELF LIFE / STORAGE:

12 months when stored in original unopened packaging
To be stored in a dry area off the ground.

CONTAINER SIZES:

15 litre Pail

SAFETY & HANDLING:

- Wear suitable respiratory protection.
- Use in well-ventilated areas.
- Avoid breathing vapours
- Avoid contact with skin and eyes.
- Wear eye protection and suitable gloves and clothing.
- Do not eat, drink, or smoke while using this product.
- If on the skin, wash with plenty of soap and water.
- If in the eyes: rinse cautiously with water for several minutes.
- Remove contact lenses; if present, continue rinsing.
- If any skin or eye irritation persists or you feel unwell, get medical attention.

Safety Data Sheet is available upon request.

Please contact RLA Technical department for further details.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre.

Skin: Wash off with warm water and soap.

If swallowed, DO NOT induce vomiting. Give a glass of water.

For advice or you feel unwell contact a Poisons Information Centre: Australia ph. 131126,

New Zealand ph. 0800 764 766 or a doctor at once.

If swallowed, do NOT induce vomiting.

IF SWALLOWED, immediately call the Poisons Information Centre or a doctor.

IF ON SKIN Remove immediately all contaminated clothing and wash skin with soap and water.

If skin irritation occurs, get medical advice/attention.

IF IN EYES Rinse carefully with water for several minutes.

If eye irritation persists, get medical advice/attention.

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.

We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.

RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where a product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out per the relevant Australian Standard, the Floorcovering Manufacturer's instructions, and the floorcoverings must have been subject to normal traffic conditions.

Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.

Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.

The consumer is responsible for any expenses incurred in making a claim.

A claim form can be requested by:

PHONE: 1800 242 931

EMAIL: info@rlapolymers.com.au

MAIL: 215 Colchester Road Kilsyth Victoria 3137 (Attention Customer Service)

WEBSITE: www.rlapolymers.com.au

AUSTRALIAN CONSUMER LAW:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.

Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.