

RLA Moisture Seal

Epoxy Water Vapour Barrier



DESCRIPTION:

RLA Moisture Seal is a high-performance 2-part water-based epoxy waterproofing system designed as a water and vapour-proof coating under waterproofing systems, coatings, tiles, resilient and timber flooring. It is intended for floor and wall applications requiring durability, water and chemical resistance.

RECOMMENDED USE:

- Primer for damp Surfaces.
- Prevention of rising damp and formation of efflorescence.
- Waterproofing system, particularly in areas where hydrostatic pressure is an issue.
- Sealing concrete slabs before vinyl and timber overlays.
- Primer of Scyon sheeting.
- Primer for acrylic and polyurethane waterproofing membranes.
- Primer for RLA tile adhesives.
- Dust sealing for interior concrete floors.
- Retaining Walls.
- Planter boxes.
- Concrete Tanks.
- Lift Wells.
- Basements.
- Reservoirs, Aqueducts
- Underground Carparks.
- As a Basecoat coating in areas requiring seamless epoxy flooring.
- Moisture barrier for hydrostatic pressure resistant, waterproof membrane

FEATURES AND BENEFITS:

- ✓ Australian made
- ✓ Low VOC
- ✓ Convenient mixing ratio 1:1
- ✓ Withstands a head of Water Pressure up to 25 metres or up to 250Kpa of hydrostatic pressure.
- ✓ Complies with AS 4020:2005 "Products in contact with drinking water".
- ✓ Complies with ASTM E96 Water vapour transmission.
- ✓ Water-based and user-friendly.
- ✓ Potable Water Approval.
- ✓ Can be applied to green/fresh concrete.
- ✓ Water clean-up.

SURFACE PREPARATION:

Substrates must be dry, sound, smooth, clean, and by the relevant Floorcoverings Australian Standards.

Subfloors must also be free of wax, grease, oil, polishes, old adhesive, curing compounds, efflorescence, or laitance.

If mechanical preparation is required, prepare the floor using recommended methods such as shot blasting, scarifying, and diamond grinding to provide a roughened, clean, sound, solid and open porous surface.

Holes, non-structural cracks and other surface deformities should be repaired using Rapid Patch by the technical data sheets.

Very porous or 'boney' concrete may require three coats of Moisture Seal. The first coat acts as a primer, penetrating the pores of the concrete.

Ensure re-coat times are adhered to between applications (refer to precautions). A minimum of 2-3 hours is required between coats, preferably overnight if the temperature is below 20°C.

MIXING:

Re-stir parts A and B separately, and then combine the entire contents of part B with Part A using an electric mixer with a high shear paddle. **ONLY MIX WHAT CAN BE USED IN THE POT LIFE OF THE MIXED PRODUCT.**

For smaller mix volumes, mix Part A and Part B in equal volume ratios 1:1. Care should be taken to ensure that RLA Moisture Seal is thoroughly mixed. Mix for no less than 3 minutes until a uniform colour is obtained; the sides of the container should be scraped to ensure all material is incorporated and mixed for a further 2 minutes.

DO NOT OVER-MIX AS THIS MAY INCORPORATE AIR BUBBLES.

- Mixing should use a mechanical forced action mixer with a high shear stirrer.
- Premix each component to form a homogeneous paste.
- Combine the two components by equal volume, mixing thoroughly for a minimum of 3 minutes until a homogeneous blended paste is obtained.
- Avoid trapping air during mixing; this may cause pin holing in the coating during application.
- Only mix as much as may be used within the pot life of the product.

TIMBER FLOORING INSTALLATION:

- As a low vapour transmission barrier on concrete floor slabs to prevent moisture migration and subsequent swelling of timber flooring systems (mandatory if the slab's moisture content exceeds 5.5% or 70% relative humidity).
- Highly recommended for use before any application of timber floors.
- As a moisture barrier on concrete before application of timber flooring or floor levelling compounds.
- As a moisture barrier on the negative side in below-ground substrates such as retaining walls, car parks, and basements, access shafts.

SOFT FLOOR COVERING APPLICATIONS:

Concrete Subfloors that display high RH (Moisture) readings RLA Moisture Seal can be applied as a moisture barrier or green slab sealer. Before application, all concrete substrates should be tested for moisture per the relevant Australian Standards. For Green Substrates with readings < 95%RH (below) by way of In Situ Method (ASTM F2170) and with the moisture content falling, it is recommended to apply one even coat. For Substrates with readings > 95% RH (higher) by way of In Situ Test Method (ASTM 2170) and where the moisture content is not falling and hydrostatic pressure or Alkaline is present, it is recommended to apply two even coats of RLA Moisture Seal in a cross over application (North, South and East, West formation) Allow 24 hours for the product to cure before the application of Primers, Levelling compounds, decorative coatings or other surface materials. Care and consideration should ensure the layer is not damaged during this time.

BUILDING & CONSTRUCTION APPLICATION:

- As a low-pressure head, water transmissions vapour barrier coating to prevent moisture vapour penetration through ground floor slabs.
- To prevent water seepage and permeation through exterior walls and floors.
- As highly tolerant moisture and vapour barrier in water storage tanks, tanking applications, reservoirs and swimming pools.
- As a curing compound coating over freshly laid (green) concrete.
- As an excellent vapour barrier coating before applying the building products such as cementitious repairs, screeds, epoxy floor toppings and coatings.
- Also suitable for use with commercial paints, tiling systems, and soft and hard floor coverings.
- Safe to use in sensitive locations (e.g., around food or habitable areas).

FLOOR LEVELLING APPLICATION:

- Where a floor levelling compound is to be used over Moisture Seal, allow the two coats of Moisture Seal to dry for a minimum of 24 hours at 25°C/50% R.H. Prime with a non-porous primer such as RLA Universal Primer as per specifications (refer to Data Sheet) and allow to dry for 1-2 hours before applying the selected Floor levelling product from the RLA range.
- Moisture Seal cure rates will be dramatically reduced if substrate surface or ambient temperature is below +10°C.
- If Moisture Seal is applied in cold or cooler climatic conditions, substrate temperatures can produce amine blush, resulting in an oily residue and areas of uncured tacky discolouration (usually off white or yellow)
- If amine blush or any other form of surface contamination or discolouration appears on the coating, Moisture Seal should be allowed to cure and then be washed with clean, fresh water.
- Ensure thorough removal of contamination before the application of any further coating. This will eliminate possible delamination between layers.
- Follow the mixing instructions strictly. Mixing slightly longer (e.g. extra 1 minute) after homogeneous paste is obtained is better than under mixing
- In cold temperatures less than 10°C, allow the product to stand for approximately 5 minutes after mixing. This will assist in accelerating the drying reaction.
- In extremely cold conditions, it is recommended that you ensure the Moisture Seal is conditioned to 20°C before use.
- If possible, store the Moisture Seal in a 20°C environment 24 hours before use.
- If substrate surface area is less than 5°C, apply by air blower or use a fan after application, this will assist in obtaining efficient curing efficiency.
- Ensure adequate room ventilation on completion of coating.

COATING APPLICATION PROCEDURE:

- As a curing compound coating over freshly laid (green) concrete.
- As an excellent vapour barrier coating before applying the building products such as cementitious repairs, screeds, epoxy floor toppings and coatings.
- Also suitable for use with commercial paints, tiling systems, and soft and hard floor coverings.
- Safe to use in sensitive locations (e.g., around food or habitable areas).

PRECAUTIONS:

- Moisture Seal cure rates will be dramatically reduced if the relative humidity exceeds 80%.
- Moisture Seal should never be diluted.
- Do not apply to steel or metal surfaces as corrosion will occur. Moisture Seal is not trafficable and must be covered with floor toppings, coatings or conventional coverings before foot or vehicle traffic introduction.
- In enclosed areas, such as water tanks or reservoirs, ventilation should be provided during the curing cycle to enable adequate evaporation of the coating.
- Allow curing for a minimum of 24 hours at 25°C/50% R.H. before applying adhesives, mortars, decorative coatings or other surface treatments.
- Moisture Seal will tend to discolour and turn yellow when UV light exposure.
- Discard any material that has exceeded the product's pot life or working time.
- Do not apply over any substrates previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination-free surface.

TECHNICAL DATA:

PRODUCT INFORMATION:	
Colour	A: White-B: Grey
Appearance (mixed)	Brushable / rollable uniform paste. Grey Colour
Finish	Satin/Matt
Flammability	Non-Flammable
Mixing Ratio	One Part A & One Part B (1:1) by Volume
Pot Life	One hour @ 35°C Two Hours @ 25°C
Re-coat time	3-4 hours @25°C & 50% RH. Dependant on concrete porosity
Coverage	4-5m ² per litre
Water Vapour barrier permeance	40.12g/24 hrs/M ² mmHg @ 32°C and 50% RH
Full cure	5-7 days @25°C & 50% RH
Dry Film Thickness per coat	100 microns
Wet Film Thickness per coat	200 microns
Application of Adhesive/coverings	24 hours @ 25 °C & 50% RH
Specific Gravity	Approx. 1.25 @ 25 °C & 50% RH
VOC Content	<5 g/l

PAINTABLE:

Compatible with most conventional, commercially available paints and industrial surface coatings such as epoxy, acrylic, polyurethane and polyester. To ensure compatibility of any coating, it is recommended that a trial or test area be conducted.

PACKAGING:

- 4-litre kit (2 litres Part A, 2 litres Part B)
- 8-litre kit (4 litres Part A, 4 litres Part B)
- 20litre kit (10 litres Part A, 10 litres Part B)

CLEAN UP:

Wash all equipment in soapy water immediately on completion. RLA Moisture Seal will cure under water. Do not leave items soaking.

SHELF LIFE:

12 months in an unopened container stored above 5 °C

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.

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. 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.

IMPORTANT NOTES:

RLA Moisture Seal, when mixed in large volumes greater than 10 litres, is highly likely to cure faster, reducing the pot life of the mixed material in the tin.

Low temperature working: the minimum application temperature is 5°C. In temperatures below 10°C, the separate components should be heated in warm water (up to 25°C) or stored in a temperature-controlled environment for 12 hours before use.

High temperature working at ambient temperatures above 30°C, the material should be stored in the shade or an air-conditioned environment for 12 hours before use. RLA Moisture Seal cure rates will be dramatically slowed if the relative humidity exceeds 85%. Do not add cementitious products to accelerate drying.

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.