

MOISTURE SEAL

EPOXY MOISTURE/VAPOUR BARRIER SYSTEM



DESCRIPTION:

RLA MOISTURE SEAL is a high-performance, 2-part water based epoxy primer and barrier coating system designed to prevent moisture and vapour ingress and rising damp through surfaces

FEATURES & BENEFITS:

- Water based, solvent free and low VOC
- Withstands up to 25 metres or up to 250Kpa of hydrostatic pressure
- Suitable for use over highly alkaline concrete up to pH 13.0
- Can be applied to damp and “green” concrete
- Extended pot life
- Outstanding adhesion properties
- Fully compatible with RLA waterproof membranes, coatings, adhesives and leveling compounds
- Complies with AS 4020 for potable water storage

USES:

- General primer and adhesion enhancer for overlaid RLA waterproof membrane systems
- Barrier coating system over surfaces containing residual moisture or subject to rising damp to protect overlaid RLA waterproof and epoxy coating systems against blistering or delamination
- As a barrier coating system to protect overlaid decorative floor & wall finishes including paints, vinyl, carpet, tiles, timber flooring and levelling compounds against damage caused by residual moisture, moisture vapour, rising damp & efflorescence
- Moisture barrier to negative sides of underground wall structures to prevent moisture ingress and seepage (basements, lift pits, retaining walls etc)
- Waterproof coating for potable water storage applications
- High strength, high performance waterproof repair mortars

SUBSTRATES:

- Concrete & concrete block
- GRC – glass reinforced concrete
- Screed and render
- Masonry
- Timber
- Compressed fibre cement sheeting including James Hardie Scyon™ Secura™

NOTE: For suitability over any substrate or material types not listed above, contact RLA Technical Department for confirmation of suitability and surface preparation

SURFACE PREPARATION:

- All surfaces are to be clean, sound, smooth, dry, and free from loose material, dirt, dust, oil, grease, wax residues, curing compounds, release agents, existing coatings, moss, algae, sharp protruding objects and all contaminating materials that could compromise the adhesion of the overlaid priming system
- Structurally unsound layers and surface contaminants must be mechanically removed.
- Masonry surfaces to be pointed flush, and all surface defects including voids, holes, damaged and pitted sections, cracks and heavy undulations to be filled, made sound and level. Refer to Moisture Seal high strength repair mortar, or the RLA range of surface preparation aids and repair compounds for suitable options
- All surfaces and substrates must be fit for purpose and constructed/installed to manufacturer's recommendations and relevant building standards in force at time of application
- Concrete to be allowed to cure for at least 28 days, and cement render/sand cement screeds allowed to cure for at least 7 days

MIXING:

- Lightly stir parts A and B to ensure a homogenous consistency before mixing
- Measuring by volume, add equal parts of Part A and Part B into a clean mixing pail
- Using an electric stirrer with paddle attachment, thoroughly mix the 2 components at low-medium speeds for a minimum of 3 minutes until a homogenous colour and consistency is formed.
- Allow the product to settle for 5 minutes after mixing before use

APPLICATION & COVERAGE

- Over floor surfaces product can be applied using a squeegee, stiff nylon broom or medium/long nap roller.
- Over vertical wall surfaces a medium-long nap roller is recommended
- Work the Moisture Seal into surfaces to enable optimum absorption and penetration into the substrate and to ensure all pinholes and voids are filled.
- Where multiple coats are required, apply subsequent coats at right angles to the previous coat
- RLA recommends regular testing of the depth of the coat with a wet film thickness gauge at regular intervals during installation.
- Check dry film for pinholes and recoat as required

GENERAL PRIMER AND ADHESION ENHANCER

Uses:

- General primer and adhesion enhancer for overlaid RLA waterproof membrane systems to approved substrates including James Hardie Scyon™ Secura™ compressed fibre cement sheeting
- Apply 1 x coat @ coverage of 1litre/10m² forming a 100 micron wet film thickness and a 50micron dry film thickness

VAPOUR BARRIER COATING/PRIMER:

Waterproofing Applications

Uses:

- For application over damp or “green” substrates with elevated residual moisture readings >80% RH when tested to ASTM F2170, or 5% moisture content when tested to ASTM F2659 and with the moisture content falling*
- Apply 1 x coat @ coverage of 1litre/5m² forming a 200 micron wet film thickness and a 100micron dry film thickness.

Flooring Applications

Uses:

- For application over damp or “green” substrates with elevated residual moisture readings ≥90% when tested to ASTM F2170, and with the moisture content falling*
- Apply 1 x coat @ coverage of 1litre/5m² forming a 200 micron wet film thickness and a 100micron dry film thickness.
- For substrates with readings > 95% RH when tested to ASTM F2170, and/or where the moisture content is not falling and hydrostatic pressure, or highly alkaline conditions up to pH 13.0 are present
- Apply 2 x coats @ coverage of 1litre/5m² per coat forming a total minimum dry film thickness of 200 microns

*Always refer to individual product TDS for application recommendations and moisture tolerances

MOISTURE BARRIER COATING:

Uses

- Hydrostatic barrier coating to floor and wall surfaces against permanent / continuous moisture and rising damp
- Efflorescence prevention through floor & wall surfaces
- Waterproof coating to potable water storage vessels and immersed applications
- Apply 2 x coats @ coverage of 1litre/5m² per coat forming a total minimum dry film thickness of 200 microns

HIGH STRENGTH REPAIR MORTARS

Uses:

- Patching surface defects and irregularities
- Crack and general repairs
- Waterproof fillets

Moisture Seal Repair Mortar

1 part mixed Moisture Seal
1 part Portland cement
3 parts fine wash sand

Method:

Combine wet and dry components and mix thoroughly to form a working mortar consistency and apply with spatula or trowel

Note: Only mix what can be used for the application as product cannot be stored

SURFACE FINISHES:

TILES & SCREED

- For the installation of RLA polymer modified tile adhesives, engineered or enhanced screeds, apply 2 x coats of Moisture Seal @ coverage of 1litre/5m² per coat
- The second coat is to be sand seeded by broadcasting a fine, dry sand into the wet coat at a rate of 750g/ m² to achieve a minimum 90% coverage.
- Sweep/vacuum excess sand from the surface once coating is dried

RLA FLOOR LEVELLING AND SMOOTHING CEMENT SYSTEMS:

- For the installation of RLA cementitious floor levelling systems and smoothing cements, apply 2 x coats of Moisture Seal at the recommended coverage of 1litre/5m² per coat and allow to dry
- The second coat is to be sand seeded by broadcasting a fine, dry sand into the wet coat at a rate of 750g/ m² to achieve a minimum 90% coverage. Sweep/vacuum excess sand from the surface once coating is dried
- Alternatively, prime over the first coat of cured Moisture Seal with [RLA UNIVERSAL PRIMER](#) and allow to dry before installing the RLA floor levelling/smoothing cement system

Note: This system is to be used as a moisture barrier for "green" substrates only. For substrates subject to rising damp or permanent moisture, 2 x neat coats of Moisture Seal is required

PAINT & MEMBRANE COATINGS:

- Moisture Seal is 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. Consult the relevant coating manufacturer for further advice.
- All overlaid finishes should be applied over Moisture Seal within 72 hours of the dried film when subject to normal ambient conditions. After 72 hours it becomes more difficult for the Moisture Seal to accept bonded coatings
- If left uncovered longer than 72 hours, a light sand with 240grit sandpaper may be required to lightly roughen the surface to promote adhesion
- If required, apply a further coat of Moisture Seal and allow to dry. Apply the membrane/paint coating within 72 hours of the dried film.

COVERAGE:

	Wet Film	Dry film	Total
General Primer	100microns	50microns	50microns
1st coat Vapour Barrier	200microns	100microns	100microns
2nd coat Moisture Barrier	200microns	100microns	200microns

Coverage per 20litre kit: 50m² (2 x coats)

Note: Coverage is dependent upon surface condition and will vary accordingly as uneven and porous surfaces will require greater coverage to achieve the specified film thickness.

DRY TIMES:

Pot Life	2 hours
Recoat	4 hours
Applying finishes over	24 hours
Immersion	10 days

Note: Figures based on normal ambient temperatures of 23°C and 50% RH. Longer drying times will be required in cooler temperatures and high humidity

CLEAN UP:

- Wash all equipment in soapy water immediately on completion. RLA Moisture Seal will cure under water. Do not leave items soaking.
- Dried product will need to be mechanically removed

SHELF LIFE / STORAGE:

- 12 months stored in original unopened packaging
- Best stored in a dry area at room temperature
- Keep off cold floors and out of direct sunlight

CONTAINER SIZES:

- 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)

LIMITATIONS:

- Do not apply Moisture Seal when surface or ambient temperatures are above 35°C or below 10°C.
- Moisture Seal cure rates will be dramatically reduced when applied in conditions below 10°C or when the relative humidity exceeds 80%.
- Do not apply when raining or when rain is imminent
- Do not apply to steel/metal surfaces to avoid corrosion
- Not to be applied over standing water
- When using for areas subject to rising damp or negative hydrostatic pressure, all active water leaks must first be treated with a suitable hydraulic setting cement/water plug
- Moisture Seal is not designed as a trafficable surface and must be covered with floor toppings, coatings or conventional coverings
- No to be used as a finished coating subject to permanent UV exposure
- In enclosed areas, such as water tanks or reservoirs, ventilation should be provided during the curing cycle to enable adequate evaporation of the coating.
- For detailed advice on applications not mentioned in this TDS, contact the RLA Technical Department

HEALTH & SAFETY:

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

TECHNICAL DATA:

Colour	Part A: White Part B: Light Grey
Form	Viscous liquid
Mix Ratio	1:1
Specific Gravity (mixed)	1.25
Hydrostatic water pressure resistance	2.5bar
Water Vapour Transmission (2 x coats @ 200micron DFT) ASTM E96 Desiccant method	1.8g/m ² /24 hours

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 in accordance with the relevant Australian Standards.

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.

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RLA Polymers Pty Ltd ACN 004 709 915

Head Office
215 Colchester Road
Kilsyth, Victoria, 3137
Tel: 1800 242 931

New South Wales
5A 246 Miller Road
Villawood, NSW, 2163

Queensland
57 Fulcrum Street
Richlands, QLD, 4077

South Australia
Unit 2/7 Berger Road
Wingfield, SA, 5013

Western Australia
24 Hanwell Way
Bassendean, W.A., 6054
Tel: 08 9279 8911

For the latest product information please visit rlapolymers.com.au