

# 2 PART

## TWO COMPONENT CEMENTITIOUS MEMBRANE



### DESCRIPTION:

**RLA 2PART** is a versatile, 2 component cementitious membrane. Combining quick drying, tough and durable characteristics of cementitious membranes with the flexibility of pre mixed alternatives, RLA 2 Part is suitable for a broad range of waterproofing applications including under tile, subterranean and immersed areas.

### FEATURES AND BENEFITS:

- Class II membrane
- Flexible
- High adhesion strength
- Tough, durable finish
- Fast drying
- UV Stable
- Suitable for immersed environments
- Compatible surface for direct fixing of tiles and toppings
- Independently tested and certified to AS4858 and AS 4654.1 for internal and external wet areas
- Potable water approved to AS 4020

### USES:

- Internal wet areas, showers, laundries, and bathrooms
- External wet areas, balconies
- Planter boxes
- Retaining walls
- Ponds and water features
- Swimming pools
- Potable water storage facilities & retention tanks
- Façade walls under tiles and stone

### SUBSTRATES:

- Concrete
- Render
- Screed
- Masonry
- Compressed fibre cement sheeting
- Plasterboard

**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 membrane 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 the RLA range of surface preparation aids and repair compounds for options
- All surfaces and substrates must be fit for purpose, constructed and 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

### PRIMING:

2 Part must be applied over primed surfaces:

#### POROUS/ABSORBENT SURFACES:

##### [RLA POROUS PRIMER](#)

Apply 1-2 coats @ coverage of 1litre/8m<sup>2</sup> per coat

#### NON POROUS/ NON ABSORBENT SURFACES:

##### [RLA NON POROUS PRIMER](#)

Apply 1 coat @ coverage of 1litre/8-10m<sup>2</sup>

#### DAMP SURFACES/SURFACES WITH RESIDUAL

**MOISTURE > 80% RH when tested to ASTM F2170 or 5% moisture content when tested to ASTM F2659**

##### [RLA MOISTURE SEAL](#)

Apply 1-2 x coats @ coverage of litre/4m<sup>2</sup> per coat

### Installation

Apply the appropriate primer to surfaces by brush or roller to the extent of the waterproofing application, in line with relevant standards and project specifications

Refer to RLA primer data sheets for specific application details

## DETAILING & BONDBREAKER SYSTEM:

Bondbreaker & Joint Transitions (AS 3740 & AS 4654.1)	Option A <b>ELASTOPROOF JOINT BAND</b>
	Option B <b>BRW PF TAPE**</b>
Pipes and penetrations	Option A <b>ELASTOPROOF COLLARS</b>
	Option B <b>BRW PF TAPE**</b>
	Option C <b>RLA MAX SMP 25**</b>
Leak control flanges & general fixtures	Option A <b>RLA MAX SMP 25**</b>
	Option B <b>BRW PF TAPE**</b>
Static cracks $\geq 1\text{mm}$ up to 6mm/ screw/nail holes	<b>RLA MAX SMP 25**</b>

**\*\*Not suitable for immersed applications**

### Bondbreaker/Sealing Tape System Option #1

- Measure and cut **ELASTOPROOF JOINT BAND** bond breaker tape for joints/junctions to be sealed.
- Apply first coat of RLA 2 Part membrane by brush or roller in a 150mm wide strip applied centrally over the joint, and embed the Elastoproof Joint Band into the wet coat
- Using a brush, press down firmly over the face of the Joint Band ensuring all creases or air pockets behind fabric edges are pushed out
- Apply a second coat of 2 Part membrane to fully encapsulate the Joint Band and affix to the surface
- **ELASTOPROOF CORNERS** are available for both internal (90°) and external (270°) junctions

### Bondbreaker/Sealing Tape System Option #2

- Unroll **BRW PF TAPE** and measure the required lengths for joints to be sealed. Cut the tape using scissors or knife
- Gradually remove release paper and position the tape in place, placing centrally over the joint
- Press into place with a spatula, roller, or cloth, ensuring air pockets and creases are pushed out

### Pipes and penetrations

- For floor pipes/penetrations protruding floors and walls, **ELASTOPROOF COLLARS** are to be fitted over the neck of the pipe and fixed into wet bed of 2 Part Membrane
- Where Elastoproof Collars are not used, create flanges using lengths of the **BRW PF TAPE**. Cut a circular aperture into the centre of a length and slide over the penetration to seal and adhere to the substrate
- Alternatively, seal around base of penetration with a liberal bead of **MAX SMP 25\***

### Leak control flanges & general fixtures

- Seal perimeter of the flanges and general fixtures to the substrate with **MAX SMP 25\***
- Alternatively, seal with lengths of **BRW PF TAPE**

### Static cracks $\geq 1\text{mm}$ up to 6mm / nail/screw holes

- Clean and remove any loose material from inside the crack/ screw hole
- Fill flush with surrounding surface with **MAX SMP 25\***

**\* RLA Waterproof Bandage can be considered for use in conjunction with RLA SMP Sealant for additional reinforcement**

### MIXING:

RLA 2 Part consist of 2 x 10kg dry component bags (Part A) and a 20Litre liquid component (Part B)

- Pour half (10litres) of the Part B liquid into the 20L bucket housing the dry component bags
- While mixing with an electric stirrer and paddle mix attachment, slowly add one 10 kg bags of powder and continue mixing until a smooth, lump free consistency is achieved
- Allow the mix to stand for 5 minutes and remix for a few second before use.
- Smaller quantities can be mixed as required using the same ratios.
- Pot life is approximately 1 hour but may be reduced in warmer conditions
- Always add powder to the liquid.

**Note: DO NOT MIX BY HAND**

### APPLICATION & COVERAGE:

- 2 Part is to be installed in line with current edition, relevant volume and sections of the NCC (National Construction Code of Australia) pertaining to internal, external and general waterproofing applications within the scope of use for the product
- Using a brush or medium nap roller, apply an even and consistent first coat to the surface achieving a minimum wet film thickness of 0.75mm (750micron)
- Once the first coat is dry, apply subsequent coats at right angles to the previous coat achieving a minimum wet film thickness of 0.75mm (750micron)
- 2 Part is to be applied in a minimum of 2 coats at a total minimum coverage of 1.5 litres/m<sup>2</sup> to achieve a dry film thickness (DFT) of 1.2mm
- RLA recommends regular testing of the depth of the coat with a wet film thickness gauge at regular intervals during installation.

	Wet Film	Dry film	Total
1 <sup>st</sup> coat	0.75mm	0.6mm	0.6mm
2 <sup>nd</sup> coat	0.75mm	0.6mm	1.2mm

**Coverage per 40kg kit: 23m<sup>2</sup>**

**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	1 hour
Recoat	2-4 hours
Tiling / Toppings	24 hours
Immersion	7 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

### TILES & TOPPING:

- Polymer modified adhesives are to be used for direct fixing of tiles over the 2 Part membrane. Refer to the RLA range of modified adhesives suitable options
- For screeding, refer to the RLA range of re bagged, engineered screed products for suitable options.
- If applying a site screed, render or concrete mix over 2 Part, it is recommended to incorporate [RLA PLASTINEX](#) as a proprietary bonding agent in the mix.

### CLEAN UP:

- Clean up with water while wet
- Once dry product needs to be removed mechanically

### PACKAGING:

40Kg kit

**Part A – Powder:** 2 x 10kg bags in 20L pail

**Part B – Liquid:** 20litres in 20L pail

### SHELF LIFE/STORAGE:

- 12 months when stored in original unopened packaging
- To be stored in a dry area off the ground
- Do not store in direct sunlight.

### LIMITATIONS:

- Do not apply when surface or ambient temperatures are below 5°C or above 35°C
- Must not be applied when raining or if rain is imminent
- Not to be used as a trafficable membrane finish
- Not to be used as an exposed coating in swimming pools or spas - must be tiled over. Refer to the RLA range of tile adhesives and grouts for suitable options
- Not to be used in areas subject to negative hydrostatic pressure
- 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	
<b>Appearance/Colour</b>	Liquid - White Powder – Light Grey Dry film: Tan
<b>Form</b>	Mixed – Viscous paste
<b>Mixing ratio</b>	1:1
<b>Specific Gravity (mixed)</b>	1.4 approx.
<b>Water Vapour Transmission</b> ASTM E96 Desiccant method	3.1g/24h/m <sup>2</sup>
<b>Water absorption</b> AS 3558.1	1.9%
<b>Tensile Strength</b> AS4858	1.2MPa
<b>Elongation</b> AS4858	214%
<b>Classification</b>	<b>Class II</b>

**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 the 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 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](mailto:info@rlapolymers.com.au)

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

**WEBSITE:** [www.rlapolymers.com.au](http://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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