

RLA PU850 UV

Polyurethane Waterproof Membrane



DESCRIPTION:

RLA PU 850 UV is a one-component, thixotropic, UV stable, under-screed, polyurethane waterproofing membrane where the viscosity of the liquid is paramount. RLA PU 850 cures to form a durable yet elastic membrane with strong adhesion to many substrates in applications such as sloped roofing, flashing, and details.

RLA PU 850 is fast curing and is tack-free in less than two hours, with exceptional elasticity. Due to its thixotropic, hydrophobic, and elastomeric nature, RLA PU 850 is the perfect solution to provide excellent waterproofing on vertical and sloped surfaces without running.

RECOMMENDED USE:

- Shower Recesses, Bathrooms, Laundries
- Kitchens
- Retaining walls
- Planter boxes
- Balconies
- Courtyard areas and patios
- Plasterboard, Brick, Steel (suitably primed).
- Wet area wall lining board
- Hardie/CSR sheet flooring
- Lightweight aggregate block

FEATURES & BENEFITS:

- ✓ Easily applied onto vertical & sloped surfaces with no running or bubbling.
- ✓ Excellent adhesion to most substrates.
- ✓ Excellent thermal resistance, never turning soft.
- ✓ Excellent cold resistance, remaining elastic to -40°C
- ✓ No accumulation of humidity undercoating (breathable).
- ✓ Excellent mechanical properties ✓ Quick drying.
- ✓ Highly elastic and stable & UV stable.
- ✓ Designed for use with a bond breaker.
- ✓ Bitumen-free.
- ✓ Will not Bleed through porous materials.

SURFACE PREPARATION:

Concrete subfloors are suitable for installing waterproofing membranes when measurements are taken as outlined in [*AS3740-2021 Waterproofing of domestic wet areas*](#).

When concrete or masonry substrates measure greater than 80% relative humidity or 5% moisture content, RLA recommends priming all surfaces with two coats of a vapour barrier using [*RLA MOISTURE SEAL*](#).

Failure to do so may result in poor adhesion and subsequent delamination.

Several methods may be used to determine the moisture content of a concrete slab: the ASTM F2740 in-situ probe method of drilling into the concrete slab and using a probe or a non-destructive surface reading measured using a digital moisture meter/hygrometer on the surface of the concrete subfloor.

All surfaces to receive RLA PU 850 UV waterproof membrane 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, and plaster must be removed.

Mortar beds must be suitably graded to provide adequate falls, minimise water ponding, and allow water shedding to drains. Concrete must be allowed to cure for at least **28 days**. Cement and render/sand cement screeds must be allowed to cure for at least **seven days** before applying RLA PU 850 UV.

Porous substrates must be primed with [*RLA PU PRIMER*](#).

APPLICATION:

All areas to receive membrane must be primed using RLA PU PRIMER. A brush roller or airless spray can be used to apply RLA PU PRIMER in one or two coats. Do not leave more than 24 hours between coats.

CONSUMPTION:

1.5Kg/m²

PRODUCT DATA:

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity	cP	ASTM D2196-86, @25°C	2500-400
Specific Weight	Gr/cm ³	ASTM S1475/ DIN 53217/ ISO 2811, @ 20C	1.4
Flash Point	°C	ASTM D93 closed cup	>42
Tack free time	Hours		2-4
Recoat time	Hours		4-24
Service Temp	°C		-40°C +80°C
Hardness	Shore A	ASTM D2240/ DIN 53505/ ISO R868	70
Tensile strength at break @23°C	Kg/cm ² (N/mm)	ASTM D412, EN-ISO-527-3	>2
Percent elongation @ 23C	%	ASTM D412, EN-ISO-527-3	>750
Water vapour transmission	Gr/cm ³	ASTM E96 (Water method)	0.8
Adhesion to concrete	Kg/cm ² (N/mm)	ASTM D4541	>20(>2)

CONCRETE SUBSTRATE CONDITIONS:

- Hardness: R28 =15MPa
- Humidity: W < 10%
- Temperature: 5°C to 35°C
- Relative Humidity: <85%

LIMITATIONS:

- Not recommended for unsound substrates.
- Not recommended for waterproofing swimming pool surfaces in contact with chemically treated water.
- Not designed to stop a hydrostatic head of water pressure.
- Must not be used over damp, wet, High Moisture content or contaminated substrates.
- Must not be applied if it is raining or if rain is imminent.
- To be applied directly to over-protective coatings
- Not to be used as a wearing surface for foot or vehicle traffic.
- NOT SUITABLE FOR DIRECT TILING. APPLICATION: SCREED REQUIRED BEFORE TILING.

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:

- Do not breathe dust; wear suitable respiratory protection.
- Use in well-ventilated areas.
- Avoid contact with skin and eyes.
- Wear eye protection and suitable gloves and clothing.
- Do not eat, drink, or smoke while using this product.
- Take off contaminated clothing and wash it before reuse.

The Safety Data Sheet is available upon request.

FIRST AID:

- If poisoning occurs, contact a doctor or the Poisons Information Centre.
- If swallowed, DO NOT induce vomiting; give a glass of water and immediately call the Poisons Information Centre and a doctor.
- For advice or if you feel unwell, contact a Poisons Information Centre: Australia ph. 131126, New Zealand ph. 0800 764 766 or a doctor at once.
- If on SKIN, remove all contaminated clothing immediately and wash the skin with soap and water.
- If in EYES, rinse carefully with water for several minutes. Remove contact lenses; if present, then continue rinsing.
- If eye irritation persists, get medical advice/attention.
- If inhaled, remove them to fresh air, and keep them at rest in a position comfortable for breathing.

Please get in touch with the RLA Technical department for further details.



Quality
ISO 9001

SAI GLOBAL
RLA PU850 UV

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Version:01

Issue Date 26/09/2022



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WARRANTY STATEMENT:

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

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 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 using the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.