

PU850 UV

Polyurethane waterproofing membrane.

RLA PU850 UV is a thixotropic, one part, liquid applied, moisture cured polyurethane waterproofing membrane, suitable for waterproofing most applications. RLA PU850 UV cures to form a UV stable, seamless, tough, durable, elastomeric waterproofing membrane. RLA PU850 UV has excellent adhesion to most suitably primed building substrates and is suitable for above and below ground applications.

RECOMMENDED USES:

- Retaining Walls
- Planter Boxes
- Internal wet areas, balconies and decks
- Rooftops
- Exposed applications

FEATURES & BENEFITS:

- Class III membrane in accordance with AS 4858 and AS4654.1
- Fast curing
- UV Stable
- Tar and Bitumen free
- Permanently flexible
- Good Chemical resistance
- Excellent adhesion to a wide variety of substrates
- Single pack

APPLICATION:

Substrate preparation

RLA PU850 UV is suitable for concrete, render, screeds, block work, fibre-cement sheeting, wet area grade plasterboard, PAA certified structural and marine plywood and Scyon* sheeting.

Metal surfaces must be primed with an appropriate metal etch primer. Always contact the manufacturer if there is any doubt about the suitability of substrates. *Must be primed RLA Moisture Seal

All surfaces to be waterproofed must be firm, clean, dry, sound and smooth. All laitance, grease, oil, wax, curing compounds, loose material, paint and any other contaminants which may reduce or prevent adhesion must be mechanically removed. Masonry surfaces must be pointed flush and surface defects repaired. New concrete must be cured for minimum 28 days. Damp concrete must be allowed to thoroughly dry or primed with RLA Moisture Seal. Render and cement screeds must be cured for minimum 7 days. Damp concrete, render or screeds must be allowed to thoroughly dry or primed with RLA Moisture Seal. Fibre cement sheeting, water resistant plasterboard, PAA structural and marine plywood and Scyon sheeting must be installed in accordance with the manufacturers' installation requirements.

Install a bond breaker/fillet using RLA/AFTEK Flex-pro PU 50FC at all horizontal and vertical transitions. For optimal performance, incorporate RLA Peel N' Stick Bandage at all transitions.

Static Crack Treatment

For static cracks less than 1mm, clean cracks thoroughly before filling with a RLA/AFTEK Flex-pro PU 50FC. RLA PU850 UV cannot span gaps. For dynamic cracks/expansion joints and control joints, the use of RLA Peel N' Stick Bandage system is recommended. Contact RLA's Technical Department for further advice.

PRIMING:

Porous substrates must first be primed using RLA PU solvent primer or RLA Moisture Seal. Damp substrates, Scyon sheeting and dense substrates must be primed using RLA Moisture Seal.

Non-porous surfaces should be primed using RLA Moisture Seal. Extremely high Mpa Concrete that does not accept any water absorption on testing should be mechanically etched by scabbling, diamond grinding or shot-blasting prior to being primed with RLA Moisture Seal. Apply the primer to the prepared substrate by using a brush or roller. Allow the primer to fully dry prior to applying the waterproofing membrane.

Note: Where Moisture Seal epoxy has been left exposed for more than 3 days a further light coat of the Moisture Seal is recommended to enhance adhesion to the cross-linking surface.

APPLICATION:

Prior to application, stir the contents thoroughly. Using a brush or roller, apply the first coat of RLA PU850 UV after the primer has sufficiently dried. Apply an even and consistent coat of approximately 0.75mm wet film thickness. Once the first coat has dried, apply a second coat of RLA PU850 UV at right angles to the first coat. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

RLA PU850 UV must be applied with a minimum of two coats to achieve a dry film thickness of not less than 1.2mm (1200 microns). Test the depth of coats with a wet film thickness gauge at regular intervals during installation. RLA PU850 UV must be installed in strict accordance with AS3740 for internal wet areas and AS4654.2 for external areas. Slip resistance may be enhanced by applying a third coat of RLA PU850 UV and broadcasting graded sand while this coat is still wet.

Note: Avoid contact with skin and eyes. Wear splash proof goggles and rubber or PVC gloves at all times.

LIMITATIONS

Do not apply RLA PU850 UV:

- Over damp, wet or contaminated substrates.
- If it is raining or if rain is imminent.
- Directly over any existing coatings.
- Directly to particle board flooring. (Ceramic tile underlay must be installed);
- As a wearing surface for foot or vehicle traffic. (Light foot traffic is permissible for Engineering services and the like)
- In swimming pools.
- Where the surface temperature is below 10°C or greater than 35°C.
- To areas subject to negative hydrostatic pressure or rising damp.

CLEAN UP:

Avoid spills. Equipment should be immediately cleaned with Xylene Solvent. Clean skin and hands using Aftek Handy Wipes.

PACKAGING:

15 Litre pails.

CONSUMPTION:

1.5 litres per m² at 1.2mm dry film thickness (10M² per drum).

The coverage figures are theoretical due to wastage and depending on the porosity and profile of the substrate, coverage figures may be reduced.

SHELF LIFE:

12 months in unopened containers when stored in a cool dry and weatherproof environment

AVAILABILITY:

RLA PU 850 UV is available Australia wide through the RLA Group distributor network. Please contact RLA Group 1800 242 931 to find out where your nearest stockist will be.

TECHNICAL SUPPORT:

RLA Polymers manufactures a comprehensive range of high quality, high performance construction products. In addition, RLA Polymers offers technical support and on-site advice to specifiers, end users and contractors. Please contact your RLA Polymers sales representative or RLA Head Office for this service

DISCLAIMER

The information and any recommendations relating to the application and end-use of all RLA products are provided in good faith based on RLA's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by RLA. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions. PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity	cP	ASTM D2196-86, @25°C	2500-4000
Specific Weight	Gr/cm ³	ASTM S1475/ DIN 53217/ ISO 2811, @ 20°C	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 to 80
Hardness	Shore A	ASTM D2240/ DIN 53505/ ISO R868	70
Tensile strength at break @ 23°C	Kg/cm ² (N/mm ²)	ASTM D412, EN-ISO-527-3	>2
Percent elongation @ 23°C	%	ASTM D412, EN-ISO-527-3	>750
Water vapor transmission	Gr/cm ³	ASTM E96 (Water method)	0.8
Adhesion to concrete	Kg/cm ² (N/mm ²)	ASTM D4541	>20 (> 2)