ROMANO
Indoor & Outdoor Solutions

SPEC SHEET

RLA / WATERPROOFING

WPU Hybrid Polyurethane Membrane



RANGE
Tiling
TYPE
Waterproofing
USE IT FOR
Under tile and exposed waterproofing, internal and external
COLOURS
Light grey
SIZES
15 L
MATERIAL
Water based polyurethane acrylic hybrid, fibre reinforced
STANDARDS
AS 4858, AS 4654.1, AS 3740, Class III
COVERAGE
10 m2 per 15 L pail (1.5 L/m2 total)

WARRANTY (DOMESTIC USE)

Manufacturing defects: product replaced free of charge

Conditions: used as directed on the technical data sheet; proof of purchase; covers the product itself, not labour. Summary of the RLA technical data sheet guarantee, checked 7 November 2026. Full terms from Romano or the brand.

FEATURES

- Class III membrane
- One part, water based
- Fibre reinforced elastomeric finish
- Internal and external use

DIMENSIONS

The dimension drawing and full specifications from RLA follow on the next page.

RLA POLYMERS

TDS
Technical Data Sheet

WPU

HYBRID POLYURETHANE MEMBRANE



DESCRIPTION:

RLA WPU is a versatile one-part polyurethane/acrylic, fibre reinforced water-based membrane developed for high performance waterproofing applications to internal and external areas.

Producing a durable, elastomeric finish, WPU is fully compatible with the RLA range of adhesives and engineered screeds for under tile applications. Alternatively, WPU can be used for external applications as an exposed membrane finish subject to UV and varying climatic conditions as well as light foot and maintenance traffic.

WPU has been independently tested and is compliant to AS/NZ 4858:2004 and AS/NZ 4654.1:2012, satisfying the requirements of AS 3740 and AS/NZ 4654.2 for use in internal and external wet areas as an under tile or exposed membrane finish.

FEATURES AND BENEFITS:

- Class III membrane
- Flexible and elastomeric
- Excellent adhesion to a wide variety of substrates
- Handles permanently wet conditions and water ponding – once cured will not re-emulsify
- Solvent free - Safe and easy to use
- Tough, durable finish
- UV stable with outstanding weather resistance
- Light foot trafficable
- Low water vapour transmission properties
- Compatible surface for direct fixing of tiles and toppings
- Independently tested and certified to AS/NZ 4858:2004 and AS/NZ 4654.1:2012 for internal and external wet areas

USES:

- Internal wet areas, showers, laundries, and bathrooms
- External wet areas, balconies, decks, podiums/terraces
- General tiled areas to prevent moisture ingress
- Rooftops as an exposed membrane subject to occasional/maintenance traffic
- Parapets and external surfaces subject to UV and continuous exposure

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, surface levellers and repair compounds for suitable 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

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Pages from RLA's own specification. Ask us about this product, we're happy to help.
Romano Indoor & Outdoor Solutions, 4/126 Canterbury Rd, Kilsyth South VIC 3137. 03 9720 4633. sales@romanoios.com.au

RLA POLYMERS

TDS
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PRIMING:

WPU must be applied over primed surfaces:

POROUS/ABSORBENT SURFACES:
RLA POROUS PRIMER
Apply 1-2 coats @ coverage of 1litre/8m² per coat

NON POROUS/ NON ABSORBENT SURFACES:
RLA NON POROUS PRIMER
Apply 1 coat @ coverage of 1litre/10m²

DAMP SURFACES/SURFACES WITH RESDUAL 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/4m² per coat

Installation
Apply primer to surfaces 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 & A/NZ 4654.1)	Option A ELASTOPROOF JOINT BAND
	Option B BRW PF TAPE
	Option C RLA MAX SMP 25*
Pipes and penetrations	Option A ELASTOPROOF COLLARS
	Option B BRW PF TAPE
	Option C RLA MAX SMP 25*
Leak control flanges & general fixtures	Option A RLA MAX SMP 25*
	Option B BRW PF TAPE
Static cracks ≥1mm up to 6mm/ screw/nail holes	RLA MAX SMP 25*

IMPORTANT: BRW PF Tape Bondbreaker/sealing tape option must be used in environments where temperatures fall below 0°C

Bondbreaker/Sealing Tape System Option #1
- Measure and cut ELASTOPROOF JOINT BAND for joints/junctions to be sealed.
- Apply first coat of WPU membrane by brush or roller in a 150mm wide strip applied centrally over the joint, and embed 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 WPU 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 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

Bond breaker System Option #3 - Liquid Sealant
- Install bond breaker fillet using RLA MAX SMP 25* sealant to floor/wall junctions & horizontal/vertical joint transitions where the membrane will be bonded to the substrate and tool off smooth

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 WPU 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/fill voids around penetration with a liberal bead of MAX SMP 25*

Leak control flanges, static cracks & 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 ≥1mm 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**

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