

# SINGLE COMPONENT PU BASED MEMBRANE

LOW VOC, UVR, HIGH SOLIDS, LOW VISCOSITY, SELF LEVELING



## RIMSEAL 170

### DESCRIPTION:

Rimseal 170 is a single component low viscosity, self-levelling, liquid polyurethane polymer that cures to form a tough and permanently flexible waterproof membrane.

### FEATURES/BENEFITS:

- One component, ready to use.
- UV Stable
- Labour saving. Can be applied in a single application.
- High permanent flexibility.
- Seamless, impervious membrane.
- Excellent chemical resistance.
- Excellent adhesion to a wide range of substrates.
- Fast cure, allowing early access for follow up trades.
- No tar or bitumen modification.
- No bleed through.
- Non Flammable.
- Very Low or Zero VOC.

### TYPICAL APPLICATIONS:

- Roof and Decks.
- Waterproofing external balconies, roof and deck areas, podium levels, wet area floors and walls prior to the application of a variety of surface toppings, such as tiles, pavers and suitable textured finishes.
- Planter box interiors, general tanking and below grade waterproofing.

### TYPICAL PROPERTIES:

Appearance:	coloured viscous liquid
Viscosity:	4,000 ± 1,000 cps/25°C
Density:	1.20 approx
Solid Content:	95 ± 2
Hardness (Shore A):	70 ± 10
Elongation (%):	> 400%
Tensile Strength (kgf/cm <sup>2</sup> ):	> 35 (3.43Mpa)
Tear Strength (kgf/cm <sup>2</sup> ):	> 20 (1.96Mpa)
Flammability:	Non Flammable

### INSTALLATION INSTRUCTIONS:

#### Surface Preparation:

Ensure surfaces are firmly fixed to manufacturers directions. Surface must be free of dirt, dust, loose particles, oil, contaminants, curing compounds and flaking concrete, etc. Acid etch if necessary.

Concrete must be a minimum strength of 20Mps and have cured a minimum of 28 days. Surface must be dry. Fill all screw holes, cracks and voids with Rimseal 170. Install leak control flanges around all pipe penetrations.

#### Priming:

Prime surfaces with POLYBOND applied at a rate of 6-10sqm/Litre, dependent upon surface porosity. Damp areas and areas subject to rising damp should be sealed with ADFLEX WBE, water-based epoxy primer. Polybond must be over-coated within a period of 24hrs whereas WBE can be allowed longer exposure but must be fully cured and totally dry prior to application of the membrane.

#### Detailing:

Apply a 25mm fillet of Rimseal Rapid Sealant between all horizontal and vertical junctions such as floor to wall, wall to wall, and all hob junctions, seal joints and detail around pipe/column penetrations. Around rain water and floor waste outlets, apply membrane to 1.5mm dry film thickness and dress up to penetrations and down into waste outlets. Reinforce where necessary with fibreglass or polyester fabric. To joins in sheet flooring, tape and bandage over the mastic-filled joint. Cut out cracks in concrete to 6mm minimum width by 3mm minimum depth and fill with Rimseal PU sealant.

#### Application:

To the prepared surface, apply Rimseal 170 by notched squeegee, brush, roller or trowel in one or more coats at a total rate of 1.25litre (1.50kg) /m<sup>2</sup> to achieve a minimum dry film thickness of 1.20mm. In the event that this coverage can not be achieved in one coat a second coat must be applied. Where necessary apply the second coat within a maximum time frame of 24 hours to ensure inter-coat bond. Turn membrane up at walls and penetrations and down into drainage outlets. When dry, check for pinholes or misses and rectify if necessary. If membrane becomes dirty between coats, clean with Solvent X to ensure adhesion. Allow 12-24 hours to dry before covering.

#### COVERAGE:

Generally a 15l drum of Rimseal 170 will cover an area of 12.0m<sup>2</sup>. Apply in one or two coats at a

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combined rate of 1.25 Litres (1.50kg)/per m<sup>2</sup>. Ensure a dry film thickness (DFT) of the cured membrane is at least 1.20mm.

### TOPCOATING:

Although Rimseal 170 is UV resistant, for optimum performance and durability in exposed situations the membrane needs to be top-coated by over coating with either of the following surface finishes: ADFLEX Aquatuff PU for non trafficable situations, or Trugrip for light trafficable situations (pedestrian traffic only).

Over-coating should take place at the earliest opportunity, once the membrane is sufficiently dry to accept light foot traffic, but must be applied within 24 hours after installation. Should this not be possible it will be necessary to apply a coat of Polybond as an inter-coat primer. Request technical support where necessary. For slip resistance particularly in wet conditions it is recommended that Trugrip be used in preference to Aquatuff PU.

### Trugrip:

Allow 12 to 24 hours for Rimseal 170 to cure. It must be over-coated within this period to ensure intercoat adhesion. Should this not be possible, apply a coat of Polybond diluted 50% with solvent X prior to application of top coat. Make sure the surface is clean and dry. Apply 2 coats of Trugrip by roller, allowing the first coat to dry (2 to 4 hours – dependent on conditions) before applying the second coat.

Coverage will be approximately 6 m<sup>2</sup> per coat giving 3 m<sup>2</sup>/l for 2 coats. For further protection and improved cleanability Trugrip may be overcoated with on or two coats of Clearseal or Aquatuff Clear.

### Aquatuff PU:

Application times and method is as per Trugrip. Minimise exposure to ensure inter-coat adhesion. Apply a minimum of two coats coloured Aquatuff PU by roller allowing 2 to 4 hours between coats, depending on weather conditions.

### PRECAUTIONS:

Do not apply above 42°C or below 8°C ambient temperature. Do not cover until fully dry. Protect membrane against damage before and during backfilling or covering.

Polybond primer must not be left exposed or uncoated for any period greater than 24 hours. It must not be exposed to wet conditions which will intensify surface tension and prevent intercoat adhesion. Should such incident occur, the primer may require abrasive treatment and additional priming. Consult the manufacturer or their duty appointed representative for more specific details.

### WARNINGS AND HAZARDS:

Keep away from heat and flame. Use only with adequate ventilation. Avoid contact with the eyes or skin, especially open breaks in the skin. In the event of skin contact, remove excess product and wash with warm soapy water. Refer to MSDS for important warnings and product information.

### HANDLING AND STORAGE:

Rimseal 170 can be stored for 6 months at below 25°C. Avoid prolonged exposure to humidity or temperature above 50 °C. Avoid contamination with water or alcohols. This product is very sensitive to air and moisture. Once opened, containers should NOT be resealed for future use.

### PACKAGING:

Rimseal 170 is supplied in 15l metal cans.

The information presented in this data sheet does not imply any warranty. Further, the maker reserves the right to alter the product, the specification and/or the application techniques as described herein without prior notice, in line with his policy of technological advancement and product improvement. Whilst any information and/or specification contained herein is to the best of our knowledge and experience, all of the above information must in every instance be taken as merely indicative and subject to confirmation after long-term practical applications. For this reason, anyone intending to use the product must ensure beforehand its suitability for the envisaged application. In every instance, the user alone is fully responsible for any consequences deriving from the use of the product. Furthermore, no warranty is given or implied in connection with any recommendations or suggestions made by us or our Representatives, Agents or Distributors as conditions of use and any labour involved beyond our control.



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