



# Rhicryl<sup>®</sup>

Acrylic copolymer sealer

1500 - line

## Description

- A decorative solvent-based acrylic sealer, which can be applied to most concrete surfaces. It provides a durable film for protection of stamped, stenciled, coloured and plain concrete surfaces.

## Properties

- Fast drying
- Non-yellowing / UV resistant film
- Controls dusting and ingress of dirt and grime into concrete substrate
- Ease of application

## Typical Applications

- Sealer used for the protection of concrete substrates in both vehicular and pedestrian traffic areas

## General Data

- |                       |                                   |
|-----------------------|-----------------------------------|
| ▪ Weather resistance  | Excellent                         |
| ▪ Water resistance    | Good                              |
| ▪ Solvent resistance  | Generally poor                    |
| ▪ Chemical resistance | Mineral fats & oils.....Very good |
|                       | Alkalis (dilute).....Excellent    |
| ▪ Abrasion resistance | Good                              |

## Specifications (at 25°C and 50% relative humidity)

- |  |   |
|--|---|
| ▪ Resin type.....                        | Acrylic copolymer   |
| ▪ Typical solids content.....            | 35 - 40% (by volume - colour dependent)                                       |
| ▪ Typical film thickness (per coat)..... | 45 - 60 microns (dry)   |
|  | 125 - 165 microns (wet)   |
| ▪ Theoretical coverage.....              | 6 - 8m <sup>2</sup> / L @ 45 microns dry film thickness (dependant on colour) |
| ▪ Touch dry.....                         | 30 minutes  |
| ▪ Hard dry.....                          | 4 - 6 hours   |
| ▪ Trafficable.....                       | Pedestrian traffic (4 - 6 hours) / Vehicular traffic (5 - 7 days)             |
| ▪ Recoating.....                         | 4 - 6 hours   |
| ▪ Gloss.....                             | Low to Full Gloss (Subject to: Film Thickness / Substrate Porosity)           |
| ▪ Colours.....                           | Range available (Subject to minimum order requirement)                        |
| ▪ Shelf life.....                        | minimum 12 months (in cool, dry conditions)                                   |

## Surface Preparation

- **New Concrete** must be cured for a minimum of 28 days. High-pressure waterblast (3000 psi) the substrate, in conjunction with a mild alkaline detergent, to remove all traces of curing membrane, release agents, oil and grease. Acid etch with a 10% solution of Phosphoric Acid or Hydrochloric Acid in water, then high-pressure waterblast (3000 psi) to remove residual acidity. (Alternatively, shotblast or diamond grind to remove surface laitance). Allow concrete to dry thoroughly before applying the Rhicryl<sup>®</sup> product. 'Acid-etching' is not a suitable preparation technique for concrete substrates suspected of being pre-treated with 'Densifier' or 'Penetrating Sealer' type products. Preparation via mechanical abrasion of the substrate must be performed prior to application (I.e. Scabbling / Shot-blasting / Diamond-grinding) to permit maximum adhesion characteristics of the system as specified. Please refer RHINOFLOOR Technical Representative for further information.
- **Existing Concrete** must be suitably cleaned to remove traces of any substance which could affect adhesion of the Rhicryl<sup>®</sup> product. Eg. Paint, mildew mould, algae, oil and grease. (Mechanical abrasion of the substrate may be required to perform this 'cleaning' function with regard to existing coatings). High-pressure waterblast (3000 psi) the substrate, in conjunction with a mild alkaline detergent, to remove all traces of curing membrane, release agents, oil and grease. Acid etch with a 10% solution of Phosphoric Acid or Hydrochloric Acid in water, then high-pressure waterblast (3000 psi) to remove residual acidity. (Alternatively, shotblast or diamond grind to remove surface laitance, existing coatings, etc). Allow concrete to dry thoroughly before applying the Rhicryl<sup>®</sup> product. 'Acid-etching' is not a suitable preparation technique for concrete substrates suspected of being pre-treated with 'Densifier' or 'Penetrating Sealer' type products. Preparation via mechanical abrasion of the substrate must be performed prior to application (I.e. Scabbling / Shot-blasting / Diamond-grinding) to permit maximum adhesion characteristics of the system as specified. Please refer RHINOFLOOR Technical Representative for further information.
- **Moisture testing** can be performed by placing a piece of plastic over a small area, tape down the edges and leave for 1 hour. Then, remove plastic, and if there is no moisture on either surface, the concrete should be sufficiently dry for coating application.

# Rhicryl®

## Mixing recommendation

- Mix the entire contents of the can before decanting
- Stir thoroughly with a broad paddle or mechanical mixer to ensure even consistency of the product
- Thin, if needed, with Wagon Paints' T7 Thinner and stir as above

## Application

- Rhicryl® sealer is normally applied in two (2) coats providing sufficient performance and durability characteristics as required, however, on substrates that are highly porous, additional coats may be necessary
- Drying times of the Rhicryl® sealer will be temperature dependent i.e. extended in Winter / reduced in Summer
- Apply the Rhicryl® sealer as thinly as possible, as 'thicker' coats, especially applied during the warmer months, can cause bubbles to appear. If bubbling occurs, or substrate porosity is problematic, reduce with T7 thinners up to 50%. Please refer RHINOFLOOR Technical Representative for further information.
- May be applied using roller, airless or conventional air spray equipment
- "Broom" application is recommended for "uneven / stenciled / impression" substrates
- Small areas may be coated by brush
  
- **Roller** nap size..... 5 – 10 mm (Mohair or Microfibre - Applicator preference)
- **Airless Spray** nozzle size..... 0.33 – 0.38 mm  
nozzle pressure..... 2000 – 2500 psi (14 - 17mPa)  
volume of thinner..... RFU
- **Air Spray** nozzle size..... 1.6 – 2.0 mm  
nozzle pressure..... 30 – 60 psi (200 - 400kPa)  
volume of thinner..... RFU
  
- **No of coats**..... 1 – 3 (depending on porosity of substrate)
- **Cleaning solvent** ..... T7 Thinner

## Non-slip additive

- To obtain a suitable non-slip finish, it is advisable to use the Rhinofloor® (1K) non-slip additive with the Rhicryl® sealer, which will provide increased slip resistance under adverse conditions e.g. Pool surrounds, sloping pathways, etc. The slip-resistant finish will wear with time, therefore it is advisable that periodic maintenance of the non-slip surface be undertaken.
- This non-slip addition should only be applied in pedestrian trafficable areas, and should **NOT** be used in areas where vehicular or hard-wheeled traffic is prevalent. Please refer Wagon Paints technical department for further information.
- Wagon Paints Australia, Incorporating Rhinofloor Coatings does not warrant the "Anti-slip" performance of the coating system(s), with or without aggregate, as this characteristic is out of our control. It is up to the applicator / contractor / purchaser to satisfy any "Anti-slip" regulations or standards required if applied to areas which may be hazardous to pedestrian traffic.
- 250gm (Rhinofloor® (1K) non-slip additive) / 20L (Paint)

## Safety precautions

- **Refer to the relevant Material Safety Data Sheet**
- Contents are flammable – keep away from all ignition sources
- Avoid contact with skin and eyes – when mixing, wear gloves and goggles
- When spraying, ensure adequate ventilation and wear appropriate protective clothing and equipment

**Packaging Group II**                      **UN No.** 1263  
**Pack sizes**                                      4, 10 & 20 litre

## Limitations

- Not suitable for application in food preparation / delivery areas
- Not suitable as a water-proofing membrane
- Not suitable for application in extreme temperatures (e.g. below 8°C and above 30°C)

Authorised:                      A. De Mello, Sales Manager                      June 2008

These technical data and recommendations are based on tests and information believed to be accurate at the time of printing. They should not be construed as containing any warranty, either expressed or implied. Users should conduct their own tests to determine final suitability of this product.

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