



Rhicryl®

Acrylic copolymer colour finish

1500 - line

Description

- Solvent-based acrylic topcoat

Properties

- Fast drying
- Non-yellowing film
- Resistant to water and alkaline solutions
- Controls dusting of concrete surfaces

Typical Applications

- Coating of concrete, bricks and masonry
- Sealing concrete floors / driveways and concrete roof tiles
- The Rhicryl® product is **NOT** suitable for application to 'Terracotta' or 'Slate' roof and floor tiles

General Data

- | | |
|-----------------------|-----------------------------------|
| ▪ Weather resistance | Excellent |
| ▪ Water resistance | Very 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 - 8m² / 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)

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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® 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® 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® 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.

Mixing recommendation

- Mix the entire contents of the can before decanting
- Stir thoroughly with a broad paddle or low-speed mechanical mixer (350 RPM) to ensure even mixing
- 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.

Application

- May be applied using roller, airless or low-pressure 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.....nil
- **Air Spray** nozzle size.....1.6 – 2.0 mm
nozzle pressure.....45 – 60 psi (300 - 400kPa)
volume of thinner.....0 – 10% (Using T7 Thinner)
- **No of coats**.....1 – 3 (depending on porosity of substrate)
- **Thinner / Cleaning solvent** T7 Thinner

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

Rhicryl®

Anti-slip Characteristics

Addition of Rhinofloor® (1K) non-slip additive to the 'Rhicryl®' industrial flooring system is NOT recommended.

If nonslip characteristics are required, please refer 'Rhicryl® Nonslip' product data sheet / RHINOFLOOR Technical Representative for further information. The 'Rhicryl® Nonslip' product is only suitable for foot traffic, and should not be used where vehicular or hard-wheeled traffic is prevalent.

Maintenance

The service life of a floor will be considerably extended if good housekeeping practices are followed. Regular cleaning of "Rhicryl®" can be carried out using a mop or brush, in unison with a mild alkaline detergent. Please refer Wagon Paints technical department for further information.

Pack sizes

| Pack size | 4 litre | 10 litre | 20 litre |
|-----------|---------|----------|----------|
|-----------|---------|----------|----------|

*Not available in quantities larger than 20lt - Refer to RHINOFLOOR Technical Representative for details

Do not mix RHICRYL® Clear with RHICRYL® pigmented products, as there may be issues with resin compatibility. Refer to Wagon Paints' Technical department for further information.

The 'Rhinofloor' floor-coating range has been designed / manufactured primarily to protect the concrete substrate. Please be aware that scratching, marring, colour-fading, gloss reduction, etc, will be evident, with the rate of film attack directly related to service conditions within the areas that these coatings have been applied. Wagon Paints, incorporating Rhinofloor Coatings, take no responsibility for film attack as mentioned, as these issues are a known fact inherent to all industrial floor coatings.

Your local RHINOFLOOR Technical Representative is:

Cameron O'Donnell

Technical Representative
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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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