



Rhinamel®

Industrial epoxy surface coating

7000 - line

Not recommended for DIY painting of swimming pools

Description

- 2-pack epoxy / polyamide finish coat

Properties

- Tough, durable surface
- High corrosion, chemical and abrasion resistance
- Long pot life

Typical Applications

- Workshop and warehouse floors
- Food preparation areas
- Plant rooms, amenities blocks, etc.

How To Specify

- The flooring system shall be "Rhinamel®" as supplied by Wagon Paints Australia Pty. Ltd.
- Please refer 'General Data' for substrate priming prior to application of Rhinamel®
- The colour shall be
- The degree of non-slip to be similar to 'Approved' sample, or to ramp rating classification of "R"

General Data

- Weather resistance Good (will chalk and yellow on prolonged exterior exposure, however film integrity is not compromised)
- Solvent resistance Good
- Chemical resistance
 - Fats & Oils Excellent
 - Alkalis, dilute Excellent*
 - Acids, dilute Good**may cause discolouration of some colours
- Abrasion resistance Excellent
- Recommended primers Rhinamel® Undercoat, Rhinamel® CC Primer, Epoxycoat, Rhinamel® Clear Sealer

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

- Resin type..... Epoxy / polyamide
- Mixing ratio..... 3 : 1 (by volume)
- Solids content..... 50% (by volume)
- Typical film thickness (per coat)..... 50 microns (dry)
100 microns (wet)
- Theoretical coverage..... 10 - 12m² / L @ 50 microns dry film thickness
- Touch dry..... 4 - 6 hours
- Hard dry..... 16 hours
- Full cure..... 7 days (will not cure at temperatures below 10°C)
- Recoating..... within 24 hours to ensure good intercoat adhesion
after 24 hours, sanding is required
- Pot life..... 4 - 8 hours (depending on temperature and level of thinner added)
- Gloss..... Gloss
- Colour..... Range of stock colours, plus extensive colour library
- Shelf life..... minimum 12 months (in cool, dry conditions)

Rhinamel®

Surface Preparation

- **Steel** surfaces must be degreased, then subjected to abrasive blasting (to AS 1627.4 Class 2½) or abrasion with a suitable power cleaning tool (e.g. disc sander). Apply Rhinamel® before flash rusting occurs.
- **Concrete** must be cured for a minimum of 28 days. 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. (Alternatively, shotblast or diamond grind to remove surface laitance) Allow concrete to dry thoroughly, then seal with one coat of Rhinamel® Clear Sealer, or pre-thinned Rhinamel® colour – Refer technical department for further information. (Moisture content not higher than 5.5%).
- **Timber** Sand wood with medium paper and dust off. Be sure wood is clean and dry. (Moisture content not higher than 8-10%)

Mixing recommendation

- Mix only the quantity required for the job
- Mix Pack A with Pack B in the ratio 3:1 (by volume)
- Stir thoroughly with a broad paddle or low-speed mechanical mixer (350 RPM) to ensure even mixing
- Allow mixture to stand for 10 minutes in warm conditions, and up to 30 minutes in cool conditions, prior to application
- Thin up to 20% by volume with Wagon Paints T3 Epoxy Thinner (see Application directions), and stir as above
- NOTE – Overthinning may cause foaming / bubbling of film when applied

Application

- May be applied using roller, airless or conventional air spray equipment
- Small areas may be coated by brush
- Excessive “Back-rolling”, overthinning and ambient temperature may influence foaming / bubbling of film
- **Roller** short nap.....5 - 10 mm
volume of thinner.....Up to 15% (On first coat to aid penetration into substrate)
- **Airless Spray** nozzle size.....0.33 - 0.38 mm
nozzle pressure.....2800 - 4000 psi (19 - 27mPa)
volume of thinner.....up to 10%
- **Air Spray** nozzle size.....1.8 - 2.2 mm
nozzle pressure.....45 - 60 psi (300 - 400kPa)
volume of thinner.....10 - 20%
- **No. of Coats**.....Two
- **Cleaning solvent** T3 Epoxy Thinner

Maintenance

The service life of a floor will be considerably extended if good housekeeping practices are followed. Regular cleaning of “Rhinamel” can be carried out using a mop, brush, or automatic rotary buffing / scrubbing machine, in unison with a mild alkaline detergent. Please refer Wagon Paints technical department for further information.

Safety precautions

- **Refer to the relevant Material Safety Data Sheets for Pack A and Pack B**
- 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

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|---------------|----------------------------|--------------------|
| Pack A | Packaging Group III | UN No. 1263 |
| Pack B | Packaging Group III | UN No. 1263 |

Rhinamel®

Pack sizes

| Pack size | 1 litre kit* | 4 litre kit* | 20 litre kit* |
|-----------|--------------|--------------|---------------|
| Pack A | 750 ml | 3 litre | 15 litre |
| Pack B | 250 ml | 1 litre | 5 litre |

*Colour availability may be subject to minimum order requirement

Anti-slip Characteristics

If specification / contract document states that a floor must conform to a particular Australian Standard for slip resistance, then an aggregate must be added into the Rhinamel flooring system to impart the required non-slip rating.

Please refer to Wagon Paints technical department for further information.

The 'Rhino' 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 Rhino Coatings, take no responsibility for film attack as mentioned, as these issues are a known fact inherent to all industrial epoxy and polyurethane floor coatings.

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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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