



Rhinofloor AG

2K high performance chemical resistant polyester polyurethane floor coating

Description

- 2-pack UV-stable saturated polyester polyurethane specifically designed as a high performance 'Chemical-resistant / Anti-Graffiti' coating system for flooring applications. (Eg. Domestic / Retail / Commercial and Industrial floors)

Properties

- Outstanding exterior durability
- Excellent chemical and abrasion resistance
- Applications where long-term protection is required from damage caused by graffiti and/or chemical attack
- Suitable for application to surfaces where "Vehicular traffic" is prevalent

Typical applications

- Floors – Suitably prepared bare concrete
- Floors – Suitably primed epoxy substrates
- Walls – Suitably prepared bare concrete and or bricks
- Walls – Suitably primed epoxy substrates

General Data

- Weather resistance Excellent
- Solvent resistance Excellent (*Not recommended for continuous immersion*)
- Chemical resistance Excellent
- Abrasion resistance Excellent
- Acid resistance Very good (*Please refer Rhinofloor technical department for further information*)
- Stain Resistance Very good

NOTE - "Antiozonants" contained within makeup of some particular vehicular tyres may still cause marking / yellowing to applied film where an individual vehicle is parked. Vinyl-backed "Tyre mats" may be beneficial to limit potential of this type of film staining. However, we highly recommend trialing of various manufactured tyre mats to see which will be suitable for a particular floor in question.

NOTE - Do not use mats manufactured from "Recycled Vehicular Tyres"

NOTE - Do not park vehicles on applied film until full curing has been achieved

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

- Resin type..... Polyester Polyurethane (*Saturated*)
- Mixing ratio..... 1 : 1 (*by volume*)
- Solids content..... 65% (*by volume*)
- VOC..... 430g / L
- Typical film thickness (per coat)..... 80 - 110 microns (*dry - DFT*)
125 - 165 microns (*wet - WFT*)
- Theoretical coverage..... 6 - 8m² / L
- Touch dry..... 4 - 6 hours
- Light pedestrian traffic..... 24 hours
- Light vehicular traffic..... 72 hours (*Premature heavy / excessive traffic may cause coating damage / failure*)
- Full cure..... 7 days
- Recoating..... within 16 to 24 hours to ensure good intercoat adhesion
after 24 hours, very thorough mechanical abrasion required before recoating
- Pot life..... 4 hours
- Pot life (With accelerator)..... (0.5% v/v - 2 hours) / (1% v/v - 1 hour)
- Gloss..... Full Gloss or Satin
- Colour..... Clear
- Shelf life..... maximum 12 months (*Stored in cool / dry conditions*)

Recommended substrates / surfaces

- Refer 'Typical applications' as per above
- Please refer Wagon Paints Technical Department for further information with regard to substrate selection criteria



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How To Specify

- The flooring system shall be “Rhino floor AG” as supplied by Wagon Paints Australia Pty. Ltd.
- The colour shall be
- The degree of non-slip to be similar to ‘Approved’ sample, or to ramp rating classification of “R

Surface Preparation

- All concrete surfaces to be coated must be in sound, stable condition, with moisture content not greater than 5.5%.
- New concrete substrates must be at least 28 days old prior to application of the Rhino floor AG system.
- The recommended preparatory method for the finishing of the concrete substrate, post-pouring, is either “Steel or Helicopter trowelled”.
- Any traces of oil, grease or other contaminants must be completely removed by detergent wash. All excess water to be mopped up and concrete allowed to thoroughly dry.
- All surfaces to be coated must be captive shot blasted to a profile similar to that of 80 grit sandpaper. (Note - Diamond grinding is generally a suitable alternative to shot blasting except where concrete substrate is highly burnished).
- Care must be taken to ensure that all existing curing compounds/agents, loose or flaky material and laitance are completely removed. Diamond-grind all areas that are inaccessible to shot blast machine. All surfaces to be coated should be vacuum cleaned to remove dust and other loose particles immediately prior to application of the first coat of Rhino floor AG system.
- ‘Acid-etching’ is not a suitable preparation technique for concrete substrates specified to be applied with the Rhino floor AG system. Please refer Wagon Paints Technical Department for further information.
- ‘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 Wagon Paints Technical Department for further information.

Mixing recommendation

- **POLYURETHANE ACCELERATOR:**
A ‘Polyurethane Accelerator’ is also available for use in the Rhino floor AG floor coating system. Please note that these polyurethane accelerators should only to be used in the cooler months of the year. Mix only the quantity required for the job. The Polyurethane Accelerator should be added to the mixed Pack A & B material at no more than 1% (v/v) per mixed litre. (eg. Add 100ml of accelerator to 10 litres of mixed Pack A & B material) – Please note that if this maximum accelerator addition is increased, the pot-life will be lessened to an extent where both application and aesthetic characteristics will be compromised. Please refer Wagon Paints Technical Department for further information.
- Mix Pack A with Pack B in the ratio 1:1 (by volume)
- Stir thoroughly with a broad paddle or mechanical mixer to ensure even mixing of the two parts
- PRIMING - If coating bare concrete substrates, the primcoat may require increased levels of thinner (up to 25%) to avoid bubbling issues, and to attenuate “Picture-framing” and/or “Roller-mark” aesthetic appearance phenomena. (Please refer RHINOFLOOR Technical Representative for further information)
- When ‘**Brushing / Rolling**’ topcoats, thin up to 10% by volume with either Wagon Paints T1 or T2 PU Thinner and stir as above. (Refer application directions as per below prior to commencement of ‘Roller’ application technique)

Application

- **Roller** nap size..... 5 – 15 mm (Microfibre - Applicator preference)
(Note – Even application of Satin product is critical to limit potential of roller-marks / gloss variations)
- **Cleaning solvent** T1 or T2 PU Thinner (Seasonal)
- **Thinning solvent** T1 or T2 PU Thinner (Seasonal / Thin up to 25% v/v if required – Refer above)
- **Number of coats** 1 – 3 (depending on porosity and/or composition of substrate)



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Coating System

Caution:

Must not be applied over damp surfaces.

Do not apply when the air / surface temperature is below, or is likely to fall below 10°C, the air / surface temperature exceeds, or is likely to exceed 30°C, or relative humidity exceeds, or is likely to exceed 85%. Substrate temperature must be at least 3°C greater than the dewpoint at the time of application. Freshly applied coatings should be protected from chemicals, liquids, fluids, oils, solvents, thinners, damp, condensation and water for at least 7 days @ 25°C. Please refer Wagon Paints Technical Department for further information.

Maintenance

- The service life of a floor will be considerably extended if good housekeeping practices are followed. Regular cleaning of "RhinoFloor AG" can be carried out using a mop, brush, or automatic rotary buffing / scrubbing machine, in unison with a mild alkaline detergent. Please contact Wagon Paints Technical Department for further information.

Test Certificates

- AS / NZS 4586-2013 Slip resistance classification of new pedestrian surface materials – Appendix 'A'
- AS / NZS 4586-2013 Slip resistance classification of new pedestrian surface materials – Appendix 'D'
- AS / NZS 1530.3-1999 Early Fire Hazard Properties
- AS ISO 9239.1-2003 Critical Radiant Flux

Anti-slip Characteristics

- Refer "Test Certificates" as per above

Safety precautions

- Refer to the relevant Safety Data Sheets (SDS) 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
- Packaging Group II UN No. 1263 (Pack A) / UN No. 1866 (Pack B)

Pack sizes

(Pack A)	5 litre
(Pack B)	5 litre

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 Rhinofloor flooring system to impart the required non-slip "R-Ramp" rating. Please refer to Rhinofloor Technical Representative 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 or vehicular traffic.

For all enquiries please contact:

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The 'Rhinofloor / Transocean' 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 epoxy and polyurethane floor coatings.

The information in this data sheet is provided to the best of our knowledge. However, we have no control over either the quality or condition of the substrate and other factors affecting the use and application of this product. Therefore, we cannot accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising from the use of this product. We reserve the right to change the product, as well as the data sheet, without notice.

Authorised: J. Skangos - Technical Manager May 2024

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