



Rhinofloor[®] Antislip

2K solvent-free epoxy for Antislip applications

Description

- 2-pack solvent-free epoxy floor coating for “Antislip” applications

Properties

- Excellent abrasion and wear resistance
- Seamless chemical-resistant surface
- Low odour during application
- Can be applied to suitably prepared horizontal & vertical surfaces (Refer ‘Mixing’ recommendations)
- Can be applied as a non-slip protective coating when used in conjunction with appropriate anti-slip aggregates

Typical Applications

- Commercial Carparks
- Factory, Workshop and Warehouse floors
- Food processing plants and Commercial kitchens
- Training rooms / Exhibition & Demonstration areas & Retail showrooms
- Washrooms and Amenities blocks
- Plantrooms / Store rooms & ‘Back of house’ areas
- **This is an industrial grade product and is not recommended for use in domestic situations**

How To Specify

- The flooring system shall be “Rhino[®] Antislip” as supplied by Wagon Paints Australia Pty. Ltd.
- Please refer ‘Application’ section for substrate priming prior to application of Rhinofloor[®] Antislip
- 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
Note – Product will chalk and discolour on exposure to both U.V. & artificial light sources, and some particular chemicals, however film integrity is not compromised. The application of UV-stable Rhinofloor[®] Polyurethane topcoats are highly recommended if the Rhinofloor[®] Antislip system is specified for areas exposed to climatic conditions as per mentioned above. Severity of film discolouration is also subject to shade of colour selected, with white and light to mid grey tones most affected. Please refer Wagon Paints Technical Department for further information.
- Solvent resistance Good
- Chemical resistance Excellent (mineral / vegetable oils; fats)
Very good (dilute acids / alkalis; salt solutions; brake fluid; engine coolant)
- Abrasion resistance Excellent

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

- Resin type..... Epoxy / polyamine
- Mixing ratio..... 2 : 1 (A : B / by volume)
- Solids content..... 100% (by volume)
- Typical film thickness (per coat)..... 200 - 250 microns (dry)
200 - 250 microns (wet)
- Theoretical coverage..... 4 - 5m² / L @ 200 microns dry film thickness
- Light pedestrian traffic..... 24 hours
- Light mechanical loading..... 2 - 4 days (Premature loading may cause coating damage / failure)
- Full cure..... 7 days
- Recoating..... within 16 - 24 hours to ensure good intercoat adhesion
after 24 hours, thorough mechanical abrasion required before recoating
- Pot life..... 20 – 30 minutes (Will be considerably reduced if RAPID hardener selected in mix)
- Gloss..... Gloss (Refer “General Data” above for restrictions of use)
- Colour..... Rhinofloor[®] colour range
(Alternate colours available subject to minimum order requirement)
- Shelf life..... minimum 12 months (in cool, dry conditions)

Product Characteristics

- A “**RAPID**” or “**FAST**” hardener is also available for use in the Rhinofloor[®] Antislip floor coating system.
- Please note that this rapid hardener is only to be used in the cooler months of the year. The use of this rapid hardener may also cause some darkening / yellowing, and a reduction in gloss level, in some colours / shades.

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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 Rhinofloor® Antislip. 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. 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 Rhinofloor® Antislip.
- 'Acid-etching' is not a suitable preparation technique for concrete substrates specified to be applied with the Rhinofloor® Antislip product. 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

- Mix only the quantity required for 20-30 minutes use
(Please note that the 'Pot life' of the mixed material will be considerably reduced if the RAPID hardener is selected)
- Mix Pack **A** & Pack **B** in the ratio of: **2 : 1 (A : B / by volume)**
- Remove lid of Rhinofloor® Antislip (Pack A) and stir thoroughly for 2-3 minutes, avoiding excessive aeration of mix. Then add slowly the Rhinofloor® Antislip (Pack B) and once again stir thoroughly for 2-3 minutes, avoiding excessive aeration of mix.
- Stir thoroughly with a broad paddle or low-speed mechanical mixer (350 RPM) to ensure even mixing.
- NOTE – Some colour shades will have higher opacity than others. If coverage of a particular colour shade is of concern, then an additional topcoat may be required to facilitate adequate opacity. We highly recommend a small test sample be applied to the substrate to make sure that the opacity of the selected colour is of an acceptable level.
Please contact Wagon Paints Technical Department for further information.
- Thinning is not recommended - Please refer Wagon Paints Technical Department for further information.
- The addition of a small percentage of 'Thixotropic Additive' may be required to reduce the potential for sagging when applied to vertical surfaces, especially when the product is to be applied in temperatures higher than usually specified or recommended. The gloss, rheology and visual / aesthetic appearance of the Rhinofloor® Antislip system may also be affected by this addition. Therefore, it is recommended a small test sample be applied before adding the thixotropic additive to a full kit. Please contact Wagon Paints Technical Department for further information.
- If required as above, the thixotropic additive must be added to the premixed resin system (A+B), then stirred thoroughly and applied to the vertical surface. Please note that it is the full responsibility of the contractor / applicator to evaluate suitable addition quantities of the thixotropic additive to the Rhinofloor® Antislip (Standard or Rapid), if applied to vertical surfaces.

Thinning

- Solvent must not be added to Rhinofloor® Antislip under any circumstances, unless agreed in writing by Wagon Paints Technical Manager, for job or site specific applications. Most common solvents, including Acetone and Methylated Spirits, will be detrimental to the curing, structural integrity and intercoat adhesion characteristics of the specified Rhinofloor® Antislip epoxy resin system. Please contact Wagon Paints Technical Department for further information.

Application

- Rhinofloor® Antislip is a very versatile coating. It can be applied by squeegee or medium nap roller (Refer below)
- A key advantage of Rhinofloor® Antislip is that it is relatively odour free during application.
- For 'Cutting-in' and other small areas, the Rhinofloor® Antislip product may be applied by brush.
- Exceeding recommended application rate of 4 - 5m² / L is NOT recommended.
- Roller** nap size.....5 – 15 mm (Microfibre - Applicator preference)
- No. of coats**.....Two recommended – A 3rd coat may be required on very porous substrates
- Cleaning solvent**T3 Epoxy Thinner or T7 Xylene

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® Antislip" product 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.

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Safety precautions

- Refer to the relevant Safety Data Sheets (SDS) for Pack A and Pack B
- Avoid contact with skin and eyes – when mixing, wear gloves and goggles

Pack A
Pack B

Packaging Group N/A
Packaging Group III

UN No. N/A
UN No. 2735

Pack sizes

STANDARD			RAPID		
Pack size	Product	15 litre kit*	Pack size	Product	15 litre kit*
Pack A	Colour	10.00 litres	Pack A	Colour	10.00 litres
Pack B	Standard Hardener	5.00 litres	Pack B	Rapid Hardener	5.00 litres

*Colour availability may be subject to minimum order requirement

Test Certificates

- AS / NZS 1530.3-1999 Methods of fire tests on building materials components and structures

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

For all enquiries please contact:

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When curing under conditions of low temperatures and / or high humidity, exposure to water may cause the surface of the cured epoxy to discolour. This water sensitivity will eventually disappear, dependant on ambient conditions. The use of Rhinofloor[®] Antislip RAPID will attenuate this spotting problem, but can only be used in suitable conditions, or as per recommendation of Wagon Paints Technical Department.

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 August 2023

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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