



Rhinoscreed

2K filled epoxy for industrial floors

7310 - line

Description

- 2-pack epoxy resin system for mixing with washed aggregate / sand in “Screeding” applications

Properties

- Advanced solvent-free epoxy resin system
- Excellent resistance to chemicals and abrasion
- Low odour during application

Typical Applications

- Levelling of uneven concrete floors
- Sloping floors to provide run-off to drainage
- Sound substrate for subsequent application of RHINOFLOOR industrial floor coating systems
- **This is an industrial grade product and is not recommended for use in domestic situations**

How To Specify

- The flooring system shall be “Rhinoscreed” as supplied by Wagon Paints Australia Pty. Ltd.
- Please refer ‘Application’ section for substrate priming prior to application of Rhinoscreed
- 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 Excellent to all common solvents
- Chemical resistance Excellent (mineral / vegetable oils; fats)
Very good (dilute acids / alkalis; salt solutions)*
*may cause discolouration on some colours
- Abrasion resistance Excellent

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

- Resin type.....Epoxy / polyamine
- Mixing ratio.....2:1 (by volume) – Refer ‘Calculations’ section
- Solids content..... 100% (by volume)
- Typical film thickness (per coat)..... Specification / application specific (Typically 3–5mm)
- Theoretical coverage..... 1m² / L of resin / filler mix @ 1 mm dry film thickness
- Light traffic..... 12 - 24 hours
- Light mechanical loading..... 2 days
- Full cure..... 7 days
- Recoating..... within 24 hours to ensure good intercoat adhesion
after 24 hours, sanding is required before recoating
- Pot life..... 1 hour (depending on temperature)
- Gloss.....Gloss
- Colour.....Clear
- Shelf life.....minimum 12 months (in cool, dry conditions)

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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%. 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 complete 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 "scratch" coat. Concrete may be acid etched using a 10% solution of Phosphoric Acid as an alternative to grinding or shot-blasting – Refer technical department for further information.

Mixing recommendation

- Mix only the quantity required for 20 -30 minutes use
- Mix Pack A with Pack B in the ratio 2:1 by volume
- Stir thoroughly with a broad paddle or low-speed mechanical mixer (350 RPM) to ensure even mixing
- Thinning is not recommended.

Thinning

- Solvent must not be added to Rhinoscreed under any circumstances. Most common solvents, including Acetone and Methylated Spirits, will be detrimental to the curing, structural integrity and intercoat adhesion characteristics of the specified Rhinofloor epoxy resin system.

Application

- Priming**Apply one coat of Rhinoscreed using a medium nap roller / brush
- Finish**.....Apply resin / filler mix by screed board, and finish with a steel trowel
- No. of coats**.....One – Dry film thickness will be specification / application specific
- Cleaning solvent**T3 Epoxy Thinner

Caution: Must not be applied over damp surfaces. Do not apply when the air/surface temperatures are below, or are likely to fall below, 10°C.

Safety precautions

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

Pack A	Packaging Group N/A	UN No. N/A
Pack B	Packaging Group III	UN No. 2735

Pack sizes

Pack size	30 litre kit*
Pack A	20 litre
Pack B	10 litre

*Minimum order requirement

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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 rating.

Please refer to Wagon Paints technical department for further information.

This product must be applied by an applicator approved by Wagon Paints. For a list of approved applicators, please contact:

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Calculations for addition of aggregate for screeding resin systems

An average mix ratio for this particular system would be **1 part** (by volume) mixed resin to **4 parts** (by volume) aggregate.

The aggregate is made up from a mix of **1.50** parts (by volume) 30/60 sand and **2.50** parts (by volume) 16/30 sand - (The aggregate / sand MUST be washed / kiln dried / dust free)

However, this ratio will vary in relation to job specifications, applicator preference, etc.

The calculations below for working out quantities required for particular area are based on this ratio (4:1).

E.g. Area of 10m² which requires a fall of 100mm to 0mm

Requires 50 x 25kg bags of aggregate / sand
150 mixed litres RHINOSCREED resin

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 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.

Authorised: A. De Mello, Sales Manager

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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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