



# Rhinofloor<sup>®</sup> HBE - SL

4K self-levelling epoxy for industrial floors

7400 - line

## Description

- 4-pack solvent-free epoxy self-levelling floor coating

## Properties

- Advanced solvent-free epoxy resin system
- Smooth impervious surface for easy cleaning and hygiene
- Excellent resistance to chemicals and abrasion
- Low odour during application
- Can be applied as a non-slip protective coating when used in conjunction with appropriate anti-slip aggregates

## Typical Applications

- Showrooms
- Factory, Workshop and Warehouse floors
- Aircraft maintenance hangars
- Medical facilities / Laboratories / Clean rooms
- Training rooms / Exhibition & Demonstration areas
- Food processing plants and Commercial kitchens
- **This is an industrial grade product and is not recommended for use in domestic situations**

## How To Specify

- The flooring system shall be "RhinoFloor<sup>®</sup> HBE - SL" as supplied by Wagon Paints Australia Pty. Ltd.
- Please refer 'Application' section for substrate priming prior to application of RhinoFloor<sup>®</sup> HBE - SL
- The colour shall be .....

## General Data

- |                       |   |
|-----------------------|---|
| ▪ Weather resistance  | Good<br><i>Note – Product will chalk and discolour on exposure to both U.V. &amp; artificial light sources, and some particular chemicals, however film integrity is not compromised. The application of UV-stable RhinoFloor<sup>®</sup> Polyurethane topcoats are highly recommended if the RhinoFloor<sup>®</sup> HBE - SL 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.<br/>Please refer RHINOFLOOR Technical Representative for further information.</i> |
| ▪ Solvent resistance  | Excellent to all common solvents  |
| ▪ Chemical resistance | Excellent (mineral / vegetable oils; fats)<br>Very good (dilute acids / alkalis; salt solutions; brake fluid; engine coolant; skydrol)  |
| ▪ Abrasion resistance | Excellent   |

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

- |  |  |
|--|--|
| ▪ Resin type.....                        | Epoxy / polyamine  |
| ▪ Mixing ratio.....                      | Refer 'Mixing Recommendations' & 'Pack Sizes' on following page  |
| ▪ Solids content.....                    | 100% (by volume)   |
| ▪ Typical film thickness (per coat)..... | 2000 - 3000 microns (dry)<br>2000 - 3000 microns (wet)   |
| ▪ Theoretical coverage.....              | 1m <sup>2</sup> / L @ 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<br>after 24 hours, sanding is required before recoating      |
| ▪ Pot life.....                          | 20 – 30 minutes (depending on ambient temperature & hardener selected)   |
| ▪ Gloss.....                             | Gloss (Refer 'General Data' above for restrictions of use)   |
| ▪ Colour.....                            | Refer RhinoFloor <sup>®</sup> Colourcard<br>(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<sup>®</sup> HBE - SL 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.

# Rhinofloor® HBE - SL

## Product Characteristics

- A “Fast” hardener, along with a “Super-fast” epoxy accelerator, is also available for use in the Rhinofloor® HBE - SL floor coating system. Please note that these fast hardeners / epoxy accelerators are only to be used in the cooler months of the year. The use of these fast hardeners / epoxy accelerators may also cause some darkening / yellowing, and a reduction in gloss level, in some colours / shades.
- When curing under conditions of low temperatures and / or high humidity, exposure to water may cause the surface of the cured epoxy to discolour (Whiten). This water sensitivity may eventually disappear, dependant on ambient conditions. The use of the RHINOFLOOR HBE ACCELERATOR in conjunction with the RHINOFLOOR HBE - SL FAST Pack B may attenuate this “Water-spotting” issue, but can only be used in suitable conditions, or as per recommendation of Wagon Paints Technical department. The use of the RHINOFLOOR HBE ACCELERATOR in conjunction with the RHINOFLOOR HBE - SL FAST Pack B may still not fully attenuate “Water-spotting” issues when applied in very cold conditions (Eg. Winter). Therefore, we highly recommended that Rhinofloor Polyurethane topcoats, (such as Rhinothane T Rollgrade or Rhinofloor AG) be applied to the specified RHINOFLOOR HBE - SL system, to eliminate the likelihood of the “Water-spotting” phenomena. Please refer RHINOFLOOR Technical Representative for further information.
- A “Super-slow” hardener is also available for use in the Rhinofloor® HBE - SL floor coating system. This hardener should only be used in extreme conditions, when the ambient temperature is of a very high level.
- Please refer RHINOFLOOR Technical Representative for further information.

## 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® HBE - SL 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. 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 ‘Primer’ coat of Rhinofloor® HBE.
- ‘Acid-etching’ is not a suitable preparation technique for concrete substrates specified to be applied with the Rhinofloor® HBE - SL system. Please refer RHINOFLOOR Technical Representative 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 RHINOFLOOR Technical Representative for further information.

## Thinning

- Solvent must **not** be added to Rhinofloor® HBE - SL 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® HBE - SL epoxy resin system.

## Mixing recommendation

- Mix only the quantity required for 20-30 minutes use
- Mix full kit of Packs A, B, C and D
- Add Colour Pack C to Pack A then mix thoroughly. Then add Pack B, then Filler Pack D
- Stir thoroughly with a broad paddle or low-speed mechanical mixer (350 RPM) to ensure even mixing
- Avoid excessive or high-speed mixing of the product – This will cause aeration / bubbling issues when applied
- Thinning is not recommended.

## Pack sizes

SLOW			FAST		
Pack size	Product	20 litre kit*	Pack size	Product	20 litre kit*
Pack A	Rhinofloor® HBE (Flow)	10.00 litre	Pack A	Rhinofloor® HBE (Flow)	10.00 litre
Pack B	Rhinofloor® HBE (Pack B – Slow)	5.00 litre	Pack B	Rhinofloor® HBE (Pack B – Fast)	5.00 litre
Pack C	Rhinofloor® HBE (Colour Paste)	0.50 litre	Pack C	Rhinofloor® HBE (Colour Paste)	0.50 litre
Pack D	Rhinofloor® HBE (Filler – Silica 100G)	12.5 kg	Pack D	Rhinofloor® HBE (Filler – Silica 100G)	12.5 kg

\*Colour availability may be subject to minimum order requirement

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## Application

- **Priming** ..... Apply one coat of Rhinofloor<sup>®</sup> HBE at the rate of 5 – 7 m<sup>2</sup> per litre
- **Trowelling** ..... The mixed material should be applied onto the already prepared and primed floor using a notched trowel to a typical thickness of 2-3 mm. The surface must be spike rolled 10 minutes after trowelling to remove any entrapped air generated in initial product stirring and/or application processes. One (Applied over pre-primed substrate – Refer 'Priming' as above)
- **No. of coats** ..... Please refer RHINOFLOOR Technical Representative
- **Topcoating of Rhinofloor<sup>®</sup> HBE - SL** ..... Please refer RHINOFLOOR Technical Representative
- **Nonslip properties** ..... T3 Epoxy Thinner or T7 Xylene
- **Cleaning solvent** .....

**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<sup>®</sup> HBE - SL" 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 Safety Data Sheets (SDS) for Pack A, Pack B, Pack C and Pack D
- 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 C	Packaging Group	N/A	UN No.	N/A
Pack D	Packaging Group	N/A	UN No.	N/A

## 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 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.

This product must be applied by an applicator approved by Wagon Paints Australia Pty. Ltd.

Your local RHINOFLOOR Technical Representative is:

**Cameron O'Donnell**

Technical Representative  
Heavy Duty Industrial & Flooring Products  
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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: A. De Mello (National 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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