



Rhinaqua[®] HB - Colour

2-pack water-based high-build coloured epoxy surface coating

Description

- 2-pack environmentally friendly water-based high-build coloured epoxy surface coating for floor and wall substrates

Properties

- Self Priming
- Tough, durable surface
- High corrosion, chemical and abrasion resistance
- No solvent odour (Very low VOC)
- Easy to Clean
- Safe to use and environmentally friendly

Typical Applications

- Factory, Workshop and Warehouse floors
- Food Preparation & Storage area floors
- Training Rooms / Exhibition & Demonstration areas & Retail Showrooms
- Commercial Carpark floors & walls & soffits
- Plantrooms / Storerooms & "Back of House" areas
- Prefabricated / Tilt-slab Concrete walls & columns
- Compressed Fibre Cement (CFC) floor & wall panels

How To Specify

- The flooring system shall be "Rhinaqua[®] HB - Colour" as supplied by Wagon Paints Australia Pty. Ltd.
- Please refer 'General Data' for substrate priming prior to application of Rhinaqua[®] HB - Colour
- 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 Rhinaqua[®] HB - Colour 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

Fats & Oils	Excellent*
Alkalis, dilute	Excellent*
Acids, dilute	Good*

Note – Product may stain / discolour on exposure to certain chemicals, and on contact with certain vehicular tyres. Please refer Wagon Paints Technical Department for further information.*
- Abrasion resistance **Excellent**
- Suitable primers Rhinaqua HB - Colour (Self-priming system)

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

- Resin type..... Modified epoxy / water-soluble polyamine
- Mixing ratio..... 3 : 1 (by volume) (Refer 'Mixing Recommendation' as per below)
- Solids content..... 65% (by volume) (Solids reduced to 55% when thinned at 15% with water)
- Typical film thickness (per coat)..... 85 - 130 microns (dry)
130 - 200 microns (wet)
- Theoretical coverage..... 8 m² / L @ 85 microns (dry) (Thinned at 15% / Substrate porosity dependent)
- Thinning..... Thin at 10-15% (by volume using potable water – Refer 'Mixing recommendations' below)
- Touch dry..... 1 - 2 hours
- Hard dry..... 5 - 6 hours
- Full cure..... 7 days (will not cure at temperatures below 10°C)
- Recoating..... Within 16 - 24 hours to ensure good intercoat adhesion
After 24 hours, thorough mechanical abrasion required before recoating
- Pot life..... 1 - 1½ hours (Temperature dependent)
- Gloss..... 75% (Dependant on amount of thinner - Potable water added)
- Colour..... Extensive AS2700 colour range (Refer Rhinofloor colourcard)
- Shelf life..... Minimum 12 months (in cool, dry conditions)

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Surface Preparation

CONCRETE:

All concrete surfaces to be coated must be in sound, stable condition, with moisture content not greater than 5%. New concrete substrates must be at least 28 days old prior to application of the Rhinaqua HB - Colour. 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 dry thoroughly. 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). Acid-etching can be used as a minimum preparation technique, however, we strongly recommend mechanical abrasion (either blasting or grinding) to ensure the substrate has been suitably prepared. Care must be taken to ensure that all existing curing compounds/agents, surface coatings, 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 Rhinaqua HB - Colour. NOTE: '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 (ie. Scabbling / Shot-blasting / Diamond-grinding) to permit maximum adhesion characteristics of the system as specified. Please refer Wagon Paints Technical Department for further information.

PREFABRICATED / TILT-SLAB CONCRETE WALLS & COLUMNS:

All surfaces to be coated must be in sound, stable condition, with moisture content not greater than 5%. New concrete substrates must be at least 28 days old prior to application of the Rhinaqua HB - Colour. High-pressure waterblast (3000 psi) the substrate, in conjunction with a mild alkaline detergent, to remove all traces of curing membrane, release agents, oil and grease. Then repeat high-pressure waterblast (3000 psi) to remove any residual detergent / contaminants on the surface. Allow concrete to dry thoroughly before applying the Rhinaqua HB - Colour product. These substrates can also be mechanically abraded (Via Grinding / Sanding) to prepare surface for application as per above. These surfaces should be vacuum cleaned to remove dust and other loose particles immediately prior to application the Rhinaqua HB - Colour product.

TIMBER:

Timber should be clean and free from any oil, grease or other contaminants. The surface to be coated must also be dry. We do not recommend the use of this product on Exterior Timber. Fill any holes / knots with an appropriate filler if required. Mechanically abrade (Sand) the Timber to a uniform surface profile using 100-200 grit Sandpaper. All sanding dust should be removed by vacuuming prior to application of the Rhinaqua HB - Colour product.

CFC (COMPRESSED FIBRE CEMENT):

Compressed Fibre Cement should be clean and free from any oil, grease or other contaminants. Mechanically abrade (Via Sanding) the Compressed Fibre Cement to a uniform surface profile using 100-200 grit Sandpaper. All sanding dust should be removed by vacuuming prior to application of the Rhinaqua HB - Colour product.

NOTE - This product can be applied over a wide range of well-adhered aged 2-pack coatings, subject to the application & verification of a test-patch, and with suitable mechanical preparation of the surface where necessary. Please consult Wagon Paints Technical Department for further information.

Mixing recommendation

- Mix only the quantity required for the job
- Mix **Rhinaqua[®] HB - Colour Pack A** with **Rhinaqua[®] HB - Colour 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 5-10 minutes, then gently re-stir the mix after standing prior to applying to floor.
- Do not over-stir the mixed material. This will avoid bubbling issues.
- Thin with potable water at 10-15% by volume
(Extra thinning may be required for absorbent surfaces / priming substrate)
(NOTE - Gloss level will be reduced the more the product is thinned)
(Please refer technical department prior to using more thinner than recommended as above)
(NOTE - Application of this product un-thinned will produce a very "Stippled" aesthetic appearance)

Application

- May be applied using roller
- Small areas may be coated by brush

- **Roller** nap size..... 5 – 15 mm (Microfibre - Applicator / Contractor preference)
- **No. of Coats**..... Two (Third coat may be necessary if substrate porosity is an issue)
Three (Recommended for Industrial / vehicular traffic areas)

- **Cleaning solvent** Water

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Maintenance

The service life of a floor will be considerably extended if good housekeeping practices are followed. Regular cleaning of “Rhinaqua[®] HB - Colour” 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 and Pack B
- Avoid contact with skin and eyes – when mixing, wear gloves and goggles
- This product is NOT classified as dangerous goods by the criteria of the Australian Dangerous Goods Code (AOG Code), for transport by road or rail.

Pack sizes

Pack size	4 litre kit*	16 litre kit*
Pack A	3 litres	12 litres
Pack B	1 litre	4 litres

*Available in an extensive AS2700 colour range (Refer Rhinofloor colourcard)

*Manufacturing “Lead-times” may apply for this product (Refer Wagon Paints Technical Department)

Anti-slip Characteristics

- Product can be applied as a non-slip protective coating when used in conjunction with appropriate anti-slip aggregates.
- If nonslip characteristics are required, please refer Wagon Paints Technical Department for further information.

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.

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.

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 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.

For all enquiries please contact:

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Authorised: J. Skangos - Technical Manager - May 2024

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.

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.

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