

Rhinaqua[®] HB - Colour

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

7025 - line

Description

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

Properties

- Tough, durable surface
- High corrosion, chemical and abrasion resistance
- No solvent odour (Very low VOC)
- Safe to use and better for the environment

Typical Applications

- Workshop and warehouse floors
- Food preparation & storage areas
- Commercial carparks

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 	Δ h rα a	owever film integrity is ecommended if the Rhin	not compromis aqua [®] HB - Colo colouration is als	ed. The application our system is specil so subject to shade	n of UV-stable Rhinof fied for areas exposed of colour selected, wit	sources, and some particul floor [®] Polyurethane topcoa t to climatic conditions as p h white and light to mid gre	ts are highly ber mentioned
 Solvent ı 	resistance C	Good					
 Chemica 	al resistance F	ats & Oils	Excellent				
	A	Alkalis, dilute	Excellent*				
	A	Acids, dilute	Good*				
	(*	may cause discoloura	ation of some o	colours)			
 Abrasion 	resistance E	Excellent					
 Suitable 	primers F	Rhinaqua HB – C	olour (Se	elf-priming sys	stem)		

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)		
			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	S
•	Hard dry		
•	Full cure	7 days (w	ill not cure at temperatures below 10°C)
•	Recoating	5 - 6 hours	S
		within 24 I	nours to ensure good intercoat adhesion
		after 24 ho	ours - sanding is required prior to recoating
	Pot life	. 1 - 1½ ho	UIS (Temperature dependent)
•	Gloss	75% (Depe	endant on amount of thinner - Potable water added)
•	Colour	Extensive	AS2700 colour range (Refer Rhinofloor colourcard)
•	Shelf life		

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Surface Preparation

- Concrete must be cured for a minimum of 28 days. Remove all traces of curing membrane, release agents, oil and grease. Acid etch with a 10% solution of Phosphoric Acid or Hydrochloric Acid in water. Once the acid has fully reacted with the substrate, apply 10% solution of Acid neutralizer (Soda Ash) to remove any residual acid solution. Then rinse fully with potable water. (Alternatively, shot-blast or diamond grind to remove surface laitance This mechanical preparation process is particularly advised for commercial & industrial situations where vehicular traffic is prevalent) Allow substrate to dry prior to application of Rhinaqua[®] HB Colour. Moisture level of concrete must not exceed 5.5% prior to application.
- Note 'Acid-etching' is not a suitable preparation technique for concrete substrates suspected of being pretreated with 'Densifier' or 'Penetrating Sealer' type products. Preparation via mechanical abrasion of the substrate <u>must</u> be performed prior to application (Ie. Scabbling / Shot-blasting / Diamond-grinding) to permit maximum adhesion characteristics of the system as specified. Please refer RHINOFLOOR Technical Representative 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" appearance)

Application

- May be applied using roller (Mohair / Lambswool / Microfibre recommended)
- Small areas may be coated by brush
- Roller short nap......6 12 mm
- No. of Coats......Two (Third coat may be necessary if substrate porosity is an issue) Three (Recommended for Industrial / vehicular traffic areas)

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 Material Safety Data Sheets 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.

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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 Rhinofloor Technical Representative)

Anti-slip Characteristics

Addition of slip-resistant additive to the 'Rhinaqua® HB - Colour' industrial flooring system is NOT recommended.

- A nonslip version of the 'Rhinaqua[®] HB Colour' product is available, but is only suitable for foot traffic in domestic situations, and should not be used where vehicular or hard-wheeled commercial or industrial traffic is prevalent.
- If nonslip characteristics are required, please refer RHINOFLOOR Technical Representative for further information.
- Additive for non-slip properties must be added to pail and stirred mechanically for at least 5 minutes prior to application. Quantity = 300gm (Rhinaqua[®] HB - Colour Non-slip additive) / 16L (Paint)

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.

Your local RHINOFLOOR Technical Representative is:

Cameron O'Donnell

Technical Representative Heavy Duty Industrial & Flooring Products Wagon Paints Australia Pty Ltd (Incorporating RHINOFLOOR Coatings) Member of TRANSOCEAN COATINGS Group

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Authorised: A. De Mello, Sales Manager April 2014

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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