



Rhinopol[®] WB

2K Water-based Clear Polyurethane Finish Coat
for Interior surfaces

Description

- 2-pack water-based high performance clear polyurethane topcoat for Interior surfaces

Properties

- Environmentally friendly – Washes up in water
- Low odour – Low VOC
- Non-flammable
- Superior abrasion resistance
- High performance clear finish available in Matt / Satin / Full Gloss levels
- Easy to apply

Typical Applications

- High performance topcoat for suitably primed Interior concrete substrates – (Refer ‘Surface Preparation’ notes)
- Can also be applied directly to Interior concrete substrates subject to recommended mechanical surface preparation.
- Do not apply to floors that will be used for “Vehicular” traffic - Refer “RhinoFloor AG” product

General Data

- Weather resistance Interior applications only
(Note - Exterior and Semi-Interior applications will have limited resistance to direct UV radiation / sunlight)
(Periodic recoating of total system may be required if applied to substrates under severe mechanical & environmental exposure conditions)
(Refer to “RhinoPol[®] WB (UV)” product data sheet if coating is required for application to UV-exposed exterior and semi-interior surfaces)
- Solvent resistance Resists splashes of most common solvents
(Not recommended for continuous immersion)
- Chemical resistance Good
- Abrasion resistance Very Good
- Suitable primers Rhinamel[®] / Rhinofloor[®] SF Premium / Rhinofloor[®] HS / Rhinofloor[®] HBE
Rhinofloor[®] HBE (SL) / Rhinaqua[®] / Transpoxy Masterbond 4.67N

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

- Resin type..... Aliphatic Water-borne Polyurethane
- Mixing ratio..... 10 : 1 (by volume)
- Solids content..... 30% (by volume)
- VOC content..... < 90g/ltr (Mixed A & B)
- Typical film thickness (per coat)..... 20 microns (dry)
65 microns (wet)
- Theoretical coverage..... 10 - 15 m² / L @ 20 microns dry film thickness
- Touch dry..... 4-6 hours
- Hard dry..... 24 hours
- Full cure..... 7 days
- Recoating..... within 8 to 24 hours to ensure good intercoat adhesion
after 24 hours, thorough sanding is required before recoating
- Pot life..... 3 hours (dependent on ambient conditions)
- Gloss..... Full Gloss / Satin / Matt
- Colour..... Clear
- Shelf life..... Pack A - 12 months (stored in cool & dry conditions)
Pack B - 6 months (stored in cool & dry conditions)

Rhinopol[®] WB

Surface Preparation

- Substrate to be prepared using shot-blasting and/or diamond grinding prior to application of the Rhinopol[®] WB product over the specified Rhinofloor[®] epoxy primer (Refer 'Suitable primers' as per General Data notes above).
- Can also be applied directly to interior concrete substrates subject to recommended mechanical surface preparation.
- Refer to Rhinofloor Technical Representative for further preparation recommendations.

Mixing recommendation

- Ensure both Pack A & Pack B have been individually "Homogeneously" mixed prior to blending with each other
- Mix only the quantity of product required for the job at hand
- Mix Pack A with Pack B in the ratio 10:1 by volume
- Stir thoroughly with a broad paddle or mechanical mixer to ensure even mixing of the two parts
- Avoid excessive aeration of mix when stirring

Application

- Not suitable for 'Exterior' applications (Refer 'Weather resistance' as per General Data notes above).
- Apply Rhinopol[®] WB product using short nap (6-10mm) 'Mohair' or 'Microfibre' roller / applicator
- Limit excessive back-rolling as this may cause bubbling in film
- Uneven film-build due to poor application technique of this product may result in gloss level variations
- Wash / Clean-up Water
- Thinning Not normally required
*(If necessary, can be thinned up to 10% with "Potable" Water to reduce potential for "Train-tracking" phenomena, sometimes seen upon application of first coat)
(Please refer your local Rhinofloor Technical Representative for further application recommendations regarding thinning of this system)*

Hot Environment applications:

Rhinopol[®] WB 'Wet-Edge Extender' may be added to the Rhinopol[®] WB product under stirring, at a rate of 5-10%, to slow down the drying time and improve flow and leveling. This addition may prolong relevant curing timeframes, therefore it is recommended that you refer to your local Rhinofloor Technical Representative for further information prior to application.

Coating Systems

Substrate	Primer	Topcoat *
Concrete	Rhinamel [®]	Rhinopol [®] WB
Concrete	Rhinofloor [®] HS	Rhinopol [®] WB
Concrete	Rhinofloor [®] SF Premium	Rhinopol [®] WB
Concrete	Rhinofloor [®] HBE	Rhinopol [®] WB
Concrete	Transpoxy Masterbond 4.67N (F/G)	Rhinopol [®] WB
Concrete	Rhinaqua [®]	Rhinopol [®] WB
Concrete	Rhinofloor [®] HBE (SL)	Rhinopol [®] WB

*Multiple topcoats of the Rhinopol[®] WB product may be required for particular applications – Please refer "Application" recommendations above

The application of the Rhinopol[®] WB product is governed by recoat interval times. Please refer 'Specification' section, or alternatively contact your local Rhinofloor Technical Representative for further recommendations.

Caution:

Store Rhinopol[®] WB Pack A & B in a cool, dry location. Do not allow storage in high temperature environments. 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 to your local Rhinofloor Technical Representative for further information.

Rhinopol[®] WB

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
- When applying, ensure adequate ventilation and wear appropriate protective clothing and equipment

Pack sizes

Pack size	Product	4.95 litre kit
Pack A	Clear Base	4.50 litres
Pack B	Hardener / Catalyst	0.45 litres

Anti-slip Characteristics

The Rhinopol[®] WB product has been evaluated for pedestrian slip by a third party, Advanced Technology Testing & Research (ATTAR) against:

- AS/NZS 4586 : Slip Resistance Classification of New Pedestrian Surface Materials – Appendix B (Dry Floor Friction Test)

The Coating system (Rhinopol[®] WB) passed the requirements of the standard for “Dry Floor Friction Test” and accordingly is classified as:

- DRY = D1

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 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.

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.

Authorised: A. De Mello National Sales Manager July 2021

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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