



Rhinopol[®] WB (UV)

3K Water-based UV-stable Clear Polyurethane Finish Coat for Interior and Exterior surfaces

Description

- 3-pack water-based high performance UV-stable clear polyurethane topcoat for Interior & Exterior surfaces

Properties

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

Typical Applications

- High performance topcoat for suitably primed (Eg. 2-pack epoxy) Interior & Exterior concrete substrates
- Can also be applied directly to Interior & Exterior concrete substrates subject to recommended mechanical surface preparation.
- (Refer 'Surface Preparation' notes)

General Data

- Weather resistance Very Good – Interior & Exterior applications
(Periodic recoating of total system may be required if applied to substrates under severe mechanical & environmental exposure conditions)
- 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[®] SL
Rhinofloor[®] HBE / Rhinaqua[®] / Transpoxy Masterbond 4.67N

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

- Resin type.....Aliphatic Water-borne Polyurethane
- Mixing ratio.....**10 : 1 : 0.5 (A : B : C)** / by volume – Refer page 3 for pack sizes)
- Solids content.....30% (by volume)
- VOC content.....< 90g/lit (Mixed A & B & C)
- 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)
Pack C - 12 months (stored in cool & dry conditions)

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Surface Preparation

- Substrate to be prepared using shot-blasting and/or diamond grinding apparatus.
- High performance topcoat for suitably primed (Eg. 2-pack epoxy) Interior & Exterior concrete substrates (Refer 'Suitable primers' as per General Data notes above).
- Can also be applied directly to Interior & Exterior concrete substrates subject to recommended mechanical surface preparation as per above.
- Refer to Rhinofloor Technical Representative for further preparation recommendations.

Mixing recommendation

- Ensure that Pack A, B & C have been individually "Homogenously" mixed prior to blending with each other
- Mix only the quantity of product required for the job at hand
- Mix Pack A, B & C in the ratio **10 : 1 : 0.5 (A : B : C)** / by volume – Refer page 3 for pack sizes)
- Stir thoroughly with a broad paddle or mechanical mixer to ensure even mixing of the three parts
- Avoid excessive aeration of mix when stirring

Application

- It is recommended that '2-3' coats minimum of the Rhinopol[®] WB (UV) product be applied if UV stability is of high importance, particularly if the Rhinopol[®] WB (UV) product is applied over an epoxy primecoat.
- Apply Rhinopol[®] WB (UV) 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-upWater
- ThinningNot normally required *(If necessary, can be thinned up to 10% with "Potable" Water)*

Hot Environment applications:

Rhinopol[®] WB 'Wet-Edge Extender' may be added to the Rhinopol[®] WB (UV) 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* (2-3 coats minimum)
Concrete	Rhinamel [®]	Rhinopol [®] WB (UV)
Concrete	Rhinofloor [®] HS	Rhinopol [®] WB (UV)
Concrete	Rhinofloor [®] SF Premium	Rhinopol [®] WB (UV)
Concrete	Rhinofloor [®] HBE	Rhinopol [®] WB (UV)
Concrete	Transpoxy Masterbond 4.67N (F/G)	Rhinopol [®] WB (UV)
Concrete	Rhinaqua [®]	Rhinopol [®] WB (UV)
Concrete	Rhinofloor [®] SL **	Rhinopol [®] WB (UV)

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

**If applying the Rhinopol[®] WB (UV) product over the Rhinofloor[®] SL product, thorough sanding is required to allow adequate intercoat adhesion. Please refer to your local Rhinofloor Technical Representative for further recommendations.

The application of the Rhinopol[®] WB (UV) 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 (UV) Pack A, B & C 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.

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Safety precautions

- Refer to the relevant Material Safety Data Sheets for Pack A and Pack B and Pack C
- 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	5.175 litre kit
Pack A	Clear Base	4.50 litres
Pack B	Hardener / Catalyst	0.45 litres
Pack C	UV Absorber / Stabiliser	0.225 litres
Pack size	Product	10.35 litre kit
Pack A	Clear Base	9.00 litres
Pack B	Hardener / Catalyst	2 x 0.45 litres
Pack C	UV Absorber / Stabiliser	2 x 0.225 litres

Anti-slip Characteristics

The Rhinopol[®] WB (UV) 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 UV) 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 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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