



Rhinothane[®] M

1K moisture-cure polyurethane clear

6200 - line

Description

- Single-pack moisture-cured U.V. stable high performance polyurethane topcoat

Properties

- Tough and flexible surface
- UV stabilized and non-yellowing *(Refer 'Surface Preparation' notes below)*
- Suits wide range of substrates

Typical Applications

- Sports stadium floors
- Vinyl flake flooring
- Domestic / Commercial / Industrial concrete floors
- Do not apply to floors that will be used for "Vehicular" traffic - Refer "RhinoFloor AG" product

General Data

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|-----------------------|--|
| ▪ Weather resistance | Excellent |
| ▪ Solvent resistance | Resists splashes of most common solvents <i>(Not recommended for continuous immersion)</i> |
| ▪ Chemical resistance | Good |
| ▪ Abrasion resistance | Excellent |

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

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| ▪ Resin type..... | Aliphatic polyurethane prepolymer |
| ▪ Solids content..... | 68% (by volume) |
| ▪ Typical film thickness (per coat)..... | 70 - 110 microns (dry)
100 - 165 microns (wet) |
| ▪ Theoretical coverage..... | 6 - 10m ² / L @ 70 - 110 microns dry film thickness |
| ▪ Touch dry..... | 4 hours |
| ▪ Hard dry..... | 16 hours |
| ▪ Full cure..... | 7 days |
| ▪ Recoating..... | To ensure good intercoat adhesion, thoroughly sand between coats |
| ▪ Gloss..... | Gloss |
| ▪ Colour..... | Clear – Colours not available |
| ▪ Shelf life..... | minimum 12 months (un-opened and in cool, dry conditions) |

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Surface Preparation

- **Timber** must be clean and dry. Sand with fine or medium paper and dust off. Sand lightly between coats to produce a smoother finish.
- **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. (Alternatively, shotblast or diamond grind to remove surface laitance) Allow concrete to dry thoroughly before applying Rhinothane[®] M. (Moisture content of substrate must not exceed 5.5%).
- 'Acid-etching' is not a suitable preparation technique for concrete substrates specified to be applied with the Rhinothane[®] M product. 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 (ie. Scabbling / Shot-blasting / Diamond-grinding) to permit maximum adhesion characteristics of the system as specified. Please refer RHINOFLOOR Technical Representative for further information.
- **Vinyl Flake Floor** ensure all loose flakes are swept and vacuumed prior to coating. Light sanding may be required to smooth off rough edges. If vinyl flakes are broadcast to refusal over epoxy products such as Rhinofloor[®] SF Premium Clear / Rhinofloor HBE / Transpoxy Masterbond 4.67N / Rhinamel basecoat, apply Rhinothane[®] M within 24 hours, or as per direction of Wagon Paints technical department. When a "Sparse" broadcast of vinyl flake is applied, it is recommended that alternate Rhinofloor Polyurethane systems (eg. Rhinothane T / Rhinofloor AG) are applied, to ensure adequate UV resistance properties.
- The Rhinothane M will have limited UV resistance when applied over clear and coloured epoxy-primed surfaces. It is recommended that alternate Rhinofloor Polyurethane systems (eg. Rhinothane T / Rhinofloor AG) are applied in these circumstances, to ensure that the system provides adequate UV resistance properties. Please refer RHINOFLOOR Technical Representative for further information.

Mixing recommendation

- Mix thoroughly with light shaking / rotation to ensure even consistency of the product
- Thinning is **NOT** recommended – Refer Wagon Paints technical department

Application

- May be applied using roller, or mohair / microfibre 'Applicator' (*Contractor advised to apply test patch for roller appraisal*)
- Small areas may be coated by brush
- **Roller** nap size..... 5 - 6mm mohair / microfibre
- **No. of coats**..... 2 to 3 (Substrate porosity dependent)
- **Cleaning solvent** T1 PU Spray Thinner

Caution:

(i) This product cures by reaction with atmospheric moisture and will solidify in the can if allowed excessive contact with air. When using, remove sufficient material for the job at hand and quickly reseal; do not brush from the can; do not return unused product to the can. Unopened containers should be stable for one year, however part full containers will have limited storage stability.

(ii) Do not apply this coating when ambient temperatures are below 15°C or above 35°C or when it is extremely dry and windy because flow and cure may be adversely affected.

(iii) **Thorough sanding** between coats is required to ensure adequate intercoat adhesion. Please refer RHINOFLOOR Technical Representative for further information.

Safety precautions

- **Refer to the relevant Material Safety Data Sheet**
- Contents are flammable – keep away from all ignition sources
- Avoid contact with skin and eyes – when mixing, wear gloves and goggles
- When spraying, ensure adequate ventilation and wear appropriate protective clothing and equipment

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Anti-slip Characteristics

Addition of slip-resistant additive to the 'Rhinothane[®] M' industrial flooring system is NOT recommended.

- A nonslip version of the 'Rhinothane[®] M' 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 1 minute prior to application. Quantity = 125gm (Rhino[®]floor (1K) non-slip additive) / 10L (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 Rhino[®]floor flooring system to impart the required non-slip "R-Ramp" rating. Please refer to Wagon Paints technical department for further information.

Wagon Paints Australia, incorporating Rhino[®]floor 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.

Maintenance

The service life of a floor will be considerably extended if good housekeeping practices are followed. Regular cleaning of "Rhinothane[®] M" 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.

Pack sizes

Pack size	10 litre*
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*No smaller or larger sized packs available
*Only available in "Gloss Clear" variety

The 'Rhino[®]floor' 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 Rhino[®]floor Coatings, take no responsibility for film attack as mentioned, as these issues are a known fact inherent to all industrial floor coatings.

Your local RHINOFLOOR Technical Representative is:

Cameron O'Donnell

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Authorised: A. De Mello, Sales Manager June 2008

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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