

MC FloorCoat PU

High-performance, UV-stable, pigmented polyurethane coating

Product Properties

- Two-component, UV-stable, pigmented solvent-based polyurethane resin coating
- Good resistance against diluted acids, bases and saline solution (see Chemical Resistance Chart)
- Good abrasion resistance, against light or high traffic and trolley movement
- Available as a combined anti-skid finish
- Premium grade pigments incorporated for high decorative and weather resistance values

Areas of Application

- Reactive resin for mineral-based substrates as floor coatings
- For interior or exterior use in industrial and commercial areas
- Hard-wearing sealer for car-parks, garages, department stores, warehouses, pharmaceuticals, roofing, electronic clean rooms, production areas, etc.

Application

Substrate Preparation/ Mixing

See leaflets "General Application Advice": "MC-Industrial Floors - Substrate and Substrate Preparation" and "Reactive Resins".

MC FloorCoat PU consists of two-component - component A (base) and component B (hardener), supplied in pre-packed quantities. Component A is pre-stirred with slowly rotating mechanical mixers for at least 10 seconds. Pour component B into component A and mix for about 1 minute until a homogenous mixture is achieved.

Thinning not more than 5% of thinner is optional.

Priming

Use epoxy based primer like MC-DUR 1200 VK M or MC-DUR 1101 M. See the referring technical datasheets.

Application as sealer

MC FloorCoat PU may be applied by brushes, rollers or airless spraying technique. It is applied crosswise, strip-and lap free, on top of the cured primer. For optimal coloration, 2 work steps are required.

Application as anti-skid coating

MC FloorCoat PU is added approx. 3 weight-% MC Anti-Slip 50. It is applied with rubber squeegees and roll crosswise with short-piled lambskin rollers.

General Information

Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition. See also leaflet "General Application Advice": "Reactive Resins".

Concerning the batch colour consistency, please note the general information on the leaflet "General Application Advice": "Reactive Resins".

Exposure to chemicals and UV-light may cause colour changes, which usually do not affect the properties and usability of the coating.

Mechanically and chemically exposed surfaces are subject to wear and tear. Regular check-ups and continuous maintenance are advised.

Technical Data for MC FloorCoat PU

| Characteristic | Unit | Value | Comments |
|-------------------------------------|-------------------|--------------------|---|
| Mixing ratio | p.b.w. | 4 : 1 4.5 : 1 | base : hardener (Gloss and satin) base : hardener (Matt) |
| Density | g/cm ³ | approx. 1.300 | - |
| Solids content | % | approx. 70 | - |
| Pot life | minutes | approx. 120 | at 20°C and 50% relative humidity |
| Resistance to foot traffic after... | hours | approx. 16 | at 20°C and 50% relative humidity |
| Time until full resistance | days | 7 | at 20°C and 50% relative humidity |
| Resistance to abrasion | g | approx. 0.040 loss | Taber abrasion test, 1000 cycles |
| Coverage | kg/m ² | 0.100 - 0.150 | per work step |
| Application conditions | °C | > 10 - < 30 | air, material and substrate temperature |
| | % | < 85 | relative humidity |
| | K | > 3 | above dew point |
| Layer thickness | µm | approx. 100 | at 150 g/m ² |

Product Characteristics for MC FloorCoat PU

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|----------------|--|
| Cleaning agent | MC-Reinigungsmittel |
| Colour | MC-PU colours; approx. to RAL-colours range; further colours on request. |
| Delivery | 5 kg pack (Gloss and satin) 5.500 kg pack (Matt) |
| Storage | Can be stored in cool (> 5°C - < 25 °C) and dry conditions for 12 months in original unopened packs. Protect from frost! |
| Disposal | In the interest of the environment, please empty all packs completely & in accordance with local regulations. |

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets and please take notice of the leaflet "Safety Measures for Handling Coating Materials and Reactive Resins".

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 03/20. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.