

MC-DUR TopSpeed

Rapid, moisture compatible roller coating



PRODUCT PROPERTIES

- Two-component, low-solvent, UV-stable, fast-curing roller coating based on the KineticBoost-Technology®
- Curing not related to temperature and moisture influence
- Short waiting time between two work steps
- High abrasion and scratch resistance
- Good resistance against diluted acids, bases and saline solutions
- Paint-, roll- and spray application possible
- increased pot time in combination with accelerated curing
- Open to diffusion
- Registered with DGNB (Code: PGA6ES)

AREAS OF APPLICATION

- Reactive resin for mineral based substrates as floor coatings / industrial floors
- Surface protection system OS 8, OS 10 and OS 14 according to DAfStb Rili SIB 2001, DIN EN 1504-2 and DIN V 18026
- Refurbishment of old coatings
- Application even under bad weather conditions
- REACH- assessed exposure scenarios: application, permanent inhalation, watercontact periodical

APPLICATION ADVICE

Substrate preparation: See leaflets "General Application Advice", "Industrial Flooring - substrate and Substrate Preparation" and "Reactive Resins".

Priming: Depending on the requirements MC-DUR TopSpeed SC or MC-DUR 1177 WV-A. Other epoxy-based primer, respective scratch coat, must be slightly strewn with quartz sand 0.1 - 0.3 mm.

Application Sealer: MC-DUR TopSpeed is rolled crosswise, strip- and lap free, on top of the cured primer. For optimal coloration, 2 work steps are required. The minimum waiting time between 2 work steps is 2 hours and max. 12 hours.

Application Anti-Skid Coating: The first layer of MC-DUR TopSpeed is strewn with oven dried quartz-sand (0.3 - 0.8 mm) immediately after the application. The surface is slightly repelled and cleaned by hover. MC-DUR TopSpeed is applied with a hard rubber float (Coverage approx. 500 g/m²) and rolled over. For an application in mechanical stressed areas please contact us for further advice.

Application on old coatings: The existing PU- or EP-based coating is slightly grinded and hovered. Furthermore, the surface is cleaned with a mild cleaner and afterwards washed with clean water. MC-DUR TopSpeed is rolled crosswise, strip- and lap free, on top of the cured primer. For optimal coloration, 2 work steps are required. A test area is recommended before application.

General information: For spray application please call the department for technical advice. See also leaflet "General Application Advice - Reactive Resins". Ensure thorough mixing of the base and the hardener component. Following mixing material is to be re-potted into a clean container and mixed again. Exposure to chemicals may cause color 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. Concerning the batch colour consistency, please note the general information on the leaflet "General Application Advice - Reactive Resins". In case of contact with disinfectants or bleaching agents such as chlorine, peroxide and sodium hypochlorite solutions, the colour of the coating surface may fade and microcracks and detachments may occur. This is typical for reactive resin coatings and is not a reason for complaints.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

| Characteristic | Unit | Value | Comments |
|--------------------------------------|-------------------|-------------------|---|
| Mixing ratio | mass fractions | 150 : 83 | base component : hardener component |
| Density (mixture) | g/cm ³ | approx. 1.34 | at 20° C and 50 % rel. humidity |
| Viscosity | mPa s | approx. 900 | at 20° C and 50 % rel. humidity |
| Working time | minutes | | |
| 10 kg container | | approx. 120 | at 20° C and 50 % rel. humidity |
| Overworkable after | hours | > 2 < 12 | at 20° C and 50 % rel. humidity |
| Accessible after | hours | 2 - 4 | depending on layer thickness and temperature / moisture content |
| Resilient after (full) | hours | approx. 48 | at 20° C and 50 % rel. humidity |
| Application conditions ¹⁾ | °C | ≥ 2 ≤ 35 | air, substrate and material temperatures |
| | % | ≤ 100 | temperature must not fall below dew point |
| Consumption | g/m ² | | |
| As a roller coating | | approx. 150 - 400 | per operation |
| Top seal coat | | approx. 500 - 600 | depending on strewing material and grain size |

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

1) Viscosity and consumption depend on the material temperature. For optimum consumption quantities and application properties material storage at approx. 20 °C is recommended. A slightly delayed reaction may occur at a relative humidity of < 50 %.

| | |
|---|---|
| Equipment cleaning agent | MC-Reinigungsmittel U |
| Colour | MC-grey, approx. RAL 7030, approx. RAL 7032, other colours on request |
| Delivery form | 10 kg and 20 kg packs |
| Storage | Can be stored in cool (below 20°C) and dry conditions for 24 months in original unopened packs. Protect from frost. |
| Packaging disposal | Make sure single-use containers are completely empty. |
| EU Regulation 2004/42 (Decopaint Directive) | RL2004/42/EG All/j (500 g/l) ≤ 500 g/l VOC |

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : PU30

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400021736]