

MC-DUR 1680

Low-solvent, carbo-modified epoxy resin coating



PRODUCT PROPERTIES

- Two-component, carbo-modified epoxy resin coating
- Coating with increased chemical resistance, may be applied in thick layers

AREAS OF APPLICATION

- Protection of concrete in ground-connected areas
- Corrosion protection for steel structures, including water constructions
- REACH-assessed exposure scenarios: periodical water-contact, periodical inhalation, application

APPLICATION ADVICE

Substrate Preparation/Mixing: See leaflets "General Application Advice": "Industrial Flooring - Substrate and Substrate Preparation" and "Reactive Resins".

Steel Surfaces: Steel surfaces must be blasted to a standard grade of cleanliness Sa 2 1/2 according to DIN EN ISO 12944-4, and overworked before a rust film can develop. After blasting a corrosion protection with Colusal SP (see technical data sheet) is applied before application of the first coating.

Priming for mineral substrates: MC-DUR 1200 VK, see technical data sheet "MC-DUR 1200 VK".

Scratch coat: Scratch coat consisting of MC-DUR 1200 VK and oven-dried quartz-sand (0.1 - 0.3 mm). Please refer to our technical data sheet "MC-DUR 1200 VK".

Application: MC-DUR 1680 is applied 8 to 24 hours after application of the scratch coat, using a roller, a brush or airless spraying technique. To maintain workability at low temperatures addition of max. 5 % by weight MC-Verdünnung EP is possible. If applied with brush or roller, a visible surface structure will remain due to the high viscosity of the material. To ensure an optimal result if using airless-spraying technique, the nozzle should be at least 0.66 mm wide at a minimum pressure of 180 bar and an adequate delivery rate.

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". 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 VALUES & PRODUCT CHARACTERISTICS

| Characteristic | Unit | Value | Comments |
|------------------------|-------------------|-------------------|--|
| Mixing ratio | mass fractions | 4 : 1 | base component : hardener component |
| Density | g/cm ³ | approx. 1.7 | |
| Viscosity | thixotropic | | |
| Working time | minutes | | |
| 12 kg container | | approx. 60 | at 20° C and 50 % rel. humidity |
| 30 kg container | | approx. 40 | at 20° C and 50 % rel. humidity |
| Application conditions | °C | ≥ 10 ≤ 30 | air, substrate and material temperatures |
| | % | ≤ 85 | rel. humidity |
| | K | 3 | above dew point |
| Consumption | kg/m ² | | |
| Roller application | | approx. 0.4 - 0.5 | in two work stages |
| Airless spray process | | approx. 1.5 | in two work stages |
| Resilient after (full) | days | 7 | at 20° C and 50 % rel. humidity |
| Accessible after | hours | approx. 12 | at 20° C and 50 % rel. humidity |

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

| | |
|---|---|
| Equipment cleaning agent | MC-Reinigungsmittel U |
| Colour | black |
| Delivery form | 12 kg packs |
| Storage | Can be stored in cool (below 20°C) and dry conditions for 12 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 : RE70

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. [2300018199]