

MC-DUR rapid Primer F

Transparent, rapid reacting epoxy resin for low ambient temperatures



PRODUCT PROPERTIES

- Two-component, solvent-free, transparent epoxy resin
- Increased mechanical and chemical resistance
- Rapid hardening and curing at temperatures $> 2^{\circ}\text{C}$

AREAS OF APPLICATION

- Use on "weekend sites", e.g. storages, production facilities, garages, sales rooms
- Priming of mineral substrates for subsequent coatings
- Binder for scratch- and levelling coats
- Application of reaction resin mortars
- REACH-assessed exposure scenarios: periodical water-contact, long-term inhalation, application

APPLICATION ADVICE

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

Priming: Application of MC-DUR rapid Primer F as primer is carried out using a rubber squeegee and/or a roller. If it cannot be overcoated within 12 hours the fresh primer is to be strewn with oven-dried quartz sand (0.1-0.3 mm) slightly.

Scratch Coat: Scratch- and levelling coats of MC-DUR rapid Primer F / quartz sand are applied using steel floats, rubber squeegees or adjustable screeding tools onto the primed surfaces. The scratch- and levelling coat consists of MC-DUR rapid Primer F and oven-dried quartz sand (0.1-0.3 mm) mixed in a mixing ratio of 1:1 p.b.w. If it cannot be overcoated within 12 hours the fresh scratch coat is to be strewn with oven-dried quartz sand (0.1-0.3) slightly.

Reaction resin mortar: The properties of MC-DUR rapid Primer F depend on filling ratio and grading curve of the aggregates. Filling ratios of up to 1 : 3 p.b.w. are self-levelling while filling ratios of up to approx. 1 : 10 p.b.w. (special aggregates SK 2) form a liquid-tight mortar if used appropriately. For mixing ratios of 1 : 4 p.b.w. to 1 : 10 p.b.w. it must always be applied directly onto a fresh bond coat of MC-DUR rapid Primer F (coverage approx. 300 - 500 g/m²).

Application on vertical areas: For sloped or vertical areas MC-DUR rapid Primer F is added approx. 3 - 5 % by weight MC-Stellmittel TX 19 (MC-Stellmittel TX 19).

General Information: Highly reactive material! If mixed in large quantities risk of abrupt curing with high heat development. Coverage, application time, resistance to foot traffic and time until fill resistance are determined by temperature and object 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 | 3 : 1 | base component : hardener component |
| Density | g/cm ³ | approx. 1.12 | at 20° C and 50 % rel. humidity |
| Viscosity | mPa s | approx. 1,000 | at 20° C and 50 % rel. humidity |
| Working time | minutes | approx. 15 | at 10 ° C and 50 % relative humidity |
| Compressive strength ((SK2)) ¹⁾ | N/mm ² | | Mixing ratio 1:10 (GT) |
| 8 h | | approx. 29 | at 10° C |
| 16 h | | approx. 84 | at 10° C |
| 24 h | | approx. 102 | at 10° C |
| Compressive strength (SK1) ²⁾ | N/mm ² | | Mixing ratio 1:7 (GT) |
| 24 h | | approx. 79 | at 2°C |
| 72 h | | approx. 98 | at 2°C |
| 11 d | | approx. 113 | at 2°C |
| Accessible after | hours | approx. 12 | at 10 ° C and 50 % relative humidity |
| | | approx. 2 | at 18°C and 50% rel. humidity |
| Resilient after (full) | days | 2 | at 10 ° C and 50 % relative humidity |
| Application conditions | °C | ≥ 2 ≤ 18 | air, substrate and material temperatures |
| | % | ≤ 85 | rel. humidity |
| | K | 3 | above dew point |

1) with special aggregate MC-Spezialkörnung SK 2

2) with special aggregate MC-Spezialkörnung SK 1

| | |
|---|---|
| Equipment cleaning agent | MC-Reinigungsmittel U |
| Colour | transparent |
| Delivery form | 6 x 1 kg or 10 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 Allj (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 : RE30

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. [2300018235]