

# MC-DUR rapid

Fast-reaction epoxy resin coating



## PRODUCT PROPERTIES

- Two-component, transparent (primer) and pigmented epoxy resin for use in industrial areas
- Coating with increased mechanical wear-resistance and chemical resistance
- Very fast curing and overworking

## AREAS OF APPLICATION

- Used at "weekend-construction sites" for warehouses, production facilities, workshops, sales floors, etc.
- For use in industrial areas or similar
- 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:** Mineral substrates are primed with MC-DUR rapid Primer. See leaflet "General Application Advice". If the primer cannot be overworked within 12 hours, the freshly applied primer must be strewn with oven-dried quartz-sand (0.1 - 0.3 mm, coverage: approx. 1 - 2 kg/m<sup>2</sup>).

**Scratch Coat:** The scratch coat consists of MC-DUR rapid Primer and oven-dried quartz sand (grain size 0.1 - 0.3 mm). See leaflet "General Application Advice".

**Application:** MC-DUR rapid is applied with a steel float, a pin screed or a rubber float, 5 - 12 hours after application of the scratch coat and deaerated with a spiked roller. To achieve an anti-skid surface MC-DUR rapid Primer is filled with oven-dried quartz sand (0.1 - 0.3 mm) in a mixing ratio of 1 : 0.3 parts by weight. To guarantee an optimal application of the filled coating the air and substrate temperature should be around + 15 °C. Afterwards the fresh coating should be strewn in excess (5 - 6 kg/m<sup>2</sup>) with oven-dried quartz-sand (for example 0.2 - 0.6 or rougher). After curing the excess sand is removed and a top sealing may be applied. The top sealer is applied sharply across the grains using a rubber squeegee and rolled crosswise with a short-piled lambskin roller.

**Application on Vertical Areas:** On sloped or vertical surfaces MC-DUR rapid is made spreadable or rollable with approx. 3 - 5 weight-% MC-Stellmittel TX 19.

**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. Temperatures below 10 °C combined with relative humidity above 80 % during the curing phase may cause color and gloss differences in the coating surface, as well an increased susceptibility to dirt.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	4.5 : 1	base component : hardener component
Density	g/cm <sup>3</sup>	approx. 1.53	
Viscosity	mPa s	approx. 6,000	at 20°C and 50% rel. humidity
Working time	minutes	approx. 18	at 20°C and 50% rel. humidity
Flexural strength	N/mm <sup>2</sup>		
7 d		approx. 25	
Compressive strength	N/mm <sup>2</sup>		
7 d		approx. 50	
Accessible after	hours	approx. 5	at 20°C and 50% rel. humidity
Resilient after	hours	24	at 20°C and 50% rel. humidity
Application conditions	°C	≥ 5 ≤ 30	air, substrate and material temperatures
	%	≤ 85	rel. humidity
	K	3	above dew point
Consumption	kg/m <sup>2</sup>		
Coating		approx. 1.5	per mm layer thickness

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

Equipment Cleaning Agent	MC-Reinigungsmittel U
Colour Shade	MC-grey, approx. RAL 7023, approx. RAL 7032, other colours on request
Delivery Form	12 kg packs
Storage	Can be stored in original sealed packages at temperatures between 0°C and 20°C in dry conditions for at least 12 months.
Packaging Disposal	Make sure single-use containers are completely empty. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG AIII/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 : RE50

**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. [2100005525]