MC-DUR *rapid*

Fast-reacting 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

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^2).

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 by around + 15 °C. Afterwards the fresh coating should be strewn in excess (5 - 6 kg) with oven-dried quartz-sand (for example 0.2 - 0.7 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.

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Technical Data for MC-DUR *rapid* Primer / MC-DUR *rapid*

Characteristic	Unit	Value	Value	Comments
		MC-DUR *rapid* Primer	MC-DUR *rapid*	
Mixing ratio	p. b. w.	3 : 1	4.5 : 1	base : hardener
Density	g/cm³	approx. 1.12	approx. 1.53	-
Viscosity	mPa·s	approx. 2,000	approx. 6,000	at 20 °C and 50 % relative humidity
Pot life	minutes	approx. 18	approx. 18	at 20 °C and 50 % relative humidity
Resistant to foot-traffic after…	hours	approx. 5	approx. 5	at 20 °C and 50 % relative humidity
Time until full resistance	hours	24	24	at 20 °C and 50 % relative humidity
Binder : aggregate quartz sand 0.1 - 0.3 (mixing ratio 1 : 0.3)				
Compressive strength	N/mm²	-	approx. 50	after 7 days
Bending tensile strength	N/mm²	-	approx. 25	after 7 days
Application conditions	°C	≥ 5 - ≤ 30	≥ 5 - ≤ 30	air, material and substrate temperature
	%	≤ 85	≤ 85	relative humidity
	K	3	3	above dew point
Coverage	kg/m²	0.3 - 0.5		
	kg/m²		approx. 1.5	per mm layer thickness

Product characteristics for MC-DUR *rapid* Primer / MC-DUR *rapid*

	MC-DUR *rapid* Primer	MC-DUR *rapid*
Colour	transparent	MC-grey, approx. RAL 7023, 7032, further colours on request
Delivery	10 kg packs	12 kg packs
Cleaning agent	MC-Reinigungsmittel U	MC-Reinigungsmittel U
EU-regulation 2004/42 (Decopaint standard)	RL2004/42/EG AII/j (550/500 g/l) max 119 g/l VOC	RL2004/42/EG AII/j (550/500 g/l) max 125 g/l VOC
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least twelve months in original unopened packs. Protect from frost!	
Disposal	Packs must be emptied completely.	

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 chapter ”Safety Measures for Handling Coating Materials and Reactive Resins”. GISCODE: RE1

Edition 06/10. 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.

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