MC-DUR LF 480

Heat-resistant epoxy resin

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- Two-component, red-transparent epoxy resin
- Electric breakdown resistor > 500 mega-ohm
- Coating of fresh concrete (age > 7 days according to TL/TP BEL-EP)

AREAS OF APPLICATION

- Priming, sealing or scratch coating of bridge decks according to ZTV-ING, part 7
- Sealing of parking decks, ramps, troughs, etc. under the approved felt systems
- REACH-assessed exposure scenarios: periodical water-contact, application

APPLICATION ADVICE

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

Application: See ZTV-ING, part 7.

1. Primer: The prepared concrete surface is primed by flooding in at least one work-step until saturated (approx. 300 - 500 g/m^2). Afterwards the material is smoothed with a lamb-skin roller. Material accumulations must be avoided. The fresh primer must be strewn with oven-dried quartz-sand (0.2 - 0.7 mm) with a coverage of approx. 500 - 800 g/m^2. Loose quartz-sand must be removed after the primer has hardened.

2. Sealing: The sealer is applied in two work-steps. First a primer (see above) is applied with a coverage of min. 400 g/m^2, which is strewn in excess with oven-dried quartz-sand (0.7 - 1.2 mm) while still fresh. Loose quartz-sand must be removed after the primer has hardened. During the second work-step a sealer is applied with a coverage of at least 600 g/m^2 and spread in such a way that material accumulations are avoided. The surface is not strewn.

3. Scratch Coat: The scratch coat, consisting of MC-DUR LF 480 and oven-dried quartz sand (grading curve accodring to execution instruction) is applied in a mixing ratio or 1 : 3 - 1 : 4 p.b.w. onto a fresh or hardener primer (see above). The fresh scratch coat is strewn with oven-dried quartz-sand (0.2 - 0.7 mm) with a coverage of approx. 500 - 800 g/m2. Loose quartz-sand must be removed after the scratch coat has hardened. Larger holes and depressions must be levelled according to ZTV-ING, part 3, passage 4.

Concrete Repair: The resin-mortar consists of MC-DUR LF 480 an oven-dried quartz sand (MC-Spezialkörnung SK 2, mixing ratio 1 : 8 p.b.w.) The mortar must be applied into a fresh primer made of MC-DUR LF 480 (approx. 400 g/m^2).

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.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	3 : 1	base component : hardener component
Viscosity	mPa·s	approx. 560	at 20°C and 50% rel. humidity
Density	g/cm³	approx. 1.1	
Working time	minutes	35	at 20°C and 50% rel. humidity
Application conditions	°C	≥ 8 ≤ 30	air, substrate and material temperatures
	%	≤ 75	rel. humidity
	K	3	above dew point
Consumption	kg/m²		
Primer		approx. 0.3 - 0.5	
Sealing		approx. 0.9 - 1.1	
Scratch coat		approx. 0.5	Mixing ratio 1:3
Overworkable after	hours	approx. 24	with weldable bituminous membranes
Accessible after	hours	approx. 18	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 Shade	red-transparent
Delivery Form	30 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. 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 AII/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 : RE55

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