MC-DUR 1680

Low-solvent, carbo-modified epoxy resin coating

BE SURE. BUILD SURE.

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 workabi-lity 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.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	4 : 1	base component : hardener component
Density	g/cm³	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/m²		
Roller application		approx. 0.4 - 0.5	in two work stages
	kg/m²		
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 Shade	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. 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 : RE70

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