MC-DUR 1800

Highly chemical-resistant, conductive epoxy resin coating

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- Two-component, pigmented epoxy resin coating for use in industrial areas
- Increased mechanical and chemical resistance
- Product is available in smooth finish, anti-skid finish and conductive finish
- Also available as a combined anti-skid finish with conductive properties

AREAS OF APPLICATION

- Coating of mineral substrates against highly aggressive chemicals
- For use in industrial areas or similar
- REACH-assessed exposure scenarios: periodical inhalation, application

APPLICATION ADVICE

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

Priming: Use MC-DUR 1200 VK, please refer to technical data sheet ”MC-DUR 1200 VK”.

Scratch coat: MC-DUR 1200 VK and oven-dried quartz-sand (0.1 - 0.3 mm). Please refer to technical data sheet ”MC-DUR 1200 VK”.

Application: MC-DUR 1800 is applied 12 to 24 hours after application of the scratch coat using a steel float, adjustable screeding tools or rubber squeegee and needs to be de-aered intensely immediately after application using a spike roll. For layers thicker of more than 1 mm MC-DUR 1800 may be filled with oven-dried quartz-sand (0.1 - 0.3 mm) in a mixing ratio of 1 : 0.5 p.b.w. After application the freshly laid areas are deaerated cross-wise with a spiked roller. To obtain higher surface friction finishes the coat is immediately strewn in excess (approx. 5 - 6 kg/m^2) with oven-dried quartz-sand (e. g. 0.3 - 0.8 mm or coarser). After curing all loose sand is removed and the top coat applied. The top coat is applied with a rubber squeegee.

Coating, conductive: 12 to 24 hours after application of the scratch coat the earthing terminals are to be set in a maximum distance of 15 meters. Then the electrically con-ductive intermediate layer MC-DUR GLW is applied (see technical data sheet ”MC-DUR GLW”). The coating with MC-DUR 1800 must not be thicker than 2 mm (max. 2.7 kg/m^2).

Application on vertical areas: MC-DUR 1800 is added with approx. 3 - 5 % by weight MC-Stellmittel TX 19 (thixotropic grade).

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. Intensively dyed substances may leave stains at the surface of a coating, if not removed promtly (e.g. coffee, tea, red wine etc.). We therefore recommend immediate removal. After completition of the reaction, depending on the ambient conditions, MC-DUR 1800 can form a thin, sticky carbamate film on the surface, which can be easily removed with slightly acidic cleaning agents.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	5 : 1	base component : hardener component
Density	g/cm³	approx. 1.43	
Viscosity	mPa·s	approx. 4,000	at 20° C and 50 % rel. humidity
Working time	minutes	approx. 20	at 20° C and 50 % rel. humidity
Flexural strength	N/mm²	approx. 40	
Compressive strength	N/mm²	approx. 80	
Accessible after	hours	approx. 12	at 20° C and 50 % rel. humidity
Resilient after (full)	days	7	at 20° C and 50 % rel. humidity
Application conditions	°C	≤ 10 ≤ 30	Temperatura del aire, soporte y material
	%	≤ 85	rel. humidity
	K	3	above dew point
Consumption	kg/m²	approx. 2 - 3	1.4-2,0 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	MC-grey, approx. RAL 7032, other colours on request
Delivery form	12 or 30 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.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG AII/j (550/500 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

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