



MC-DUR 1900

Chemical-resistant, crack-bridging epoxy resin coating with increased abrasion resistance

Product Properties

- Two-component, pigmented epoxy resin coating for use in industrial areas
- Increased crack-bridging properties and increased mechanical and chemical resistance
- Product is available in smooth or anti-skid finishes, conductive smooth finish

Areas of Application

- Coating for areas exposed to combined chemical and mechanical load
- For use in industrial areas or similar
- REACH-assessed exposure scenarios: periodical water-contact, periodical inhalation, application

Application

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 1900 is applied 12 to 24 hours after application of the scratch coat, using a steel float, adjustable screeding tools or a rubber squeegee and then deaerated with a spiked roller. To achieve crack-bridging properties a coverage of approx. 2 kg/m² must be applied. To obtain higher surface friction finishes the previously filled coat is immediately strewn in excess (approx. 5 - 6 kg/m²) with oven-dried quartz-sand (e.g. 0.2 - 0.7 mm or coarser). After curing, the loose sand is removed and the top coat applied. The top coat is applied cross-wise 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 conductive intermediate layer MC-DUR GLW is applied (see technical data sheet "MC-DUR

GLW"). The coating with MC-DUR 1900 must not be thicker than 2 mm (max. 2.7 kg/m²). If a conductive as well as a higher friction finish is required please ask for our technical advise.

Coating, non-conductive

For areas where conductivity is not necessary, MC-DUR 1900 FF (fibre-free) can be supplied.

Application on vertical areas

For sloped or vertical areas MC-DUR 1900 TX (thixotropic grade) can be used, or approx. 3 - 5 % by weight MC-Stellmittel TX 19 (MC-Thixotropic Agent TX 19) may be added to MC-DUR 1900.

General Information

Fibres are visible in the coating, accumulation of fibres is possible. 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.



Technical Data for MC-DUR 1900

Characteristic	Unit	Value	Comments
Mixing ratio	p. b. w.	4 : 1	base : hardener
Density	g/cm ³	approx. 1.4	-
Viscosity	mPa·s	approx. 3,300	at 20 °C and 50 % relative humidity
Pot life			
10 kg packs	minutes	approx. 40	at 20 °C and 50 % relative humidity
30 kg packs	minutes	approx. 35	at 20 °C and 50 % relative humidity
Resistant to foot traffic after...	hours	approx. 12	at 20 °C and 50 % relative humidity
Time until full resistance	days	7	at 20 °C and 50 % relative humidity
Application conditions	°C	≥ 10 - ≤ 30	air, material and substrate temperature
	%	≤ 85	relative humidity
	K	3	above dew point
Coverage	kg/m ²	approx. 1.4	per mm layer thickness

Product Characteristics for MC-DUR 1900

Colour	MC-grey; approx. RAL 7023, 7032 further colours on request
Delivery	10 and 30 kg packs
Cleaning agent	MC-Reinigungsmittel U
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost!
Disposal	Packs must be emptied completely.
EU-regulation 2004/42 (Decopaint standard)	RL2004/42/EG All/j (550/500 g/l) max 142 g/l VOC

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

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 05/14. 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.