

MC-DUR 1900 plus

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 combined chemical and mechanical exposure or permanent conversion
- For use in industry or comparable areas
- 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".

Priming: 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). See technical data sheet "MC-DUR 1200 VK".

Application: MC-DUR 1900 Plus is applied 12 to 24 hours after application of the scratch coat using a float, coating knife or rubber squeegee and de-aerated with a spiked roller. A coverage of approx. 2 kg/m² is required to achieve the necessary crack-bridging capability. For anti-skid surfaces the crack-bridging layer is overcoated with MC-DUR 1900 Plus (coverage approx. 600 – 800 g/m²) after a waiting time of 12 – 24 hours and immediately strewn in excess (approx. 5 – 6 kg/m²) with oven-dried quartz sand (0.3 – 0.8 mm or coarser). All loose sand is removed after hardening followed by application of a top sealer, applied using a hard rubber squeegee.

Coating, conductive: MC-Leitband AS or MC-Antistatic-Spray are applied onto the hardened scratch coat and connected to the structure earthing. Afterwards the electro-conductive intermediate layer MC-DUR GLW (see technical data sheet "MC-DUR GLW") is applied. MC-DUR 1900 Plus is applied with a max. layer thickness of 2 mm (max. 2.7 kg/mm²). For conductive and at the same time anti-skid surfaces please ask for our technical advice.

Application on vertical surfaces: For sloped or vertical surfaces MC-DUR 1900 Plus is mixed with approx. 3 - 5 weight-% of thixotropic agent MC-Stellmittel TX 19.

General Information: Fibres are visible in the coating. Clusters of fibres are 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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	100 : 28	base component : hardener component
Density	g/cm ³	approx. 1.35	mixture
Viscosity	mPa s	approx. 4,200	at 20° C and 50 % rel. humidity
Working time	minutes		
10 kg container		approx. 30	at 20° C and 50 % rel. humidity
30 kg container		approx. 25	at 20° C and 50 % rel. humidity
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	air, substrate and material temperatures
	%	≤ 85	rel. humidity
	K	3	above dew point
Consumption	kg/m ²		
Coating		approx. 1.35 - 2.7	

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, other colours on request
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 Allj (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

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018205]