

MC-DUR ChemProtect AS

Chemical-resistant, crack-bridging, dissipative epoxy resin coating with wear resistance



PRODUCT PROPERTIES

- Two-component, pigmented epoxy resin coating material
- Coating with increased crack bridging and increased mechanical and chemical resistance
- Smooth, non-slip and / or conductive finish possible

AREAS OF APPLICATION

- Water protection coating in accordance with the Water Resources Act (§ 62 WHG)
- Coating for combined chemical and mechanical stress or frequent change of use
- For use in industry or comparable areas
- REACH-assessed exposure scenarios: Water contact periodically, Inhalation periodically, Processing (???)

APPLICATION ADVICE

Substrate preparation/mixing: See data sheet "Substrate preparation for reaction resin coatings". See technical data sheet "Processing of reaction resins".

Primer: See technical data sheet "MC-DUR ChemProtect Primer".

Scratch and shrinkage filler: See technical data sheet "MC-DUR ChemProtect SC".

Installation: MC-DUR ChemProtect is applied with a trowel, squeegee or rubber blade at the earliest 12 and at the latest 24 hours after application of the scratch coat and deaerated with a spiked roller. To achieve crack bridging, a consumption of approx. 2 kg/m² is required. For slip-resistant surfaces, after a waiting time of 12 - 24 hours, the crack-bridging layer is filled with MC-DUR ChemProtect (consumption approx. 600 - 800 g/m²) and immediately sanded with fire-dried quartz sand (e.g. 0.3 - 0.8 mm or coarser) in excess (approx. 5 - 6 kg). After hardening, the excess sand is removed and a head seal can be applied using a hard rubber grating board.

Coating, dissipative: After a waiting time of at least 12 and a maximum of 24 hours after application of the scratch and blowhole filler, the connection points to the equipotential bonding (MC Earthing Kit) are set with a maximum distance of 15 meters. The electrically conductive intermediate layer MC-DUR GLW (see information sheet "MC-DUR GLW") is then applied. The coating with MC-DUR ChemProtect may be applied in a maximum layer thickness of 2 mm (max. 2.8 kg/m²). Please ask for our technical advice for the conductive and anti-slip structure.

Processing in vertical areas: In inclined or vertical areas, MC-DUR ChemProtect can be adjusted with approx. 3 - 5 % by weight of MC-Stellmittel TX 19 to make it trowelable or rollable.

Special notes: Fibres are visible in the coating. Accumulations of fibers are possible. Consumption quantities, processing time, walkability and achievement of load-bearing capacity depend on temperature and object. See information sheet "Processing reactive resins". With regard to batch color consistency, please observe the other information in the section "Processing reactive resins". Chemical stress and exposure to light can lead to changes in color, which generally do not impair suitability for use. Chemically and mechanically stressed surfaces are subject to wear and tear due to use. Regular inspection and on-going maintenance are recommended.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	100 : 30	base component : hardener component
Density	g/cm ³	1.29	
Viscosity	mPa·s	approx. 3,270	
Working time	minutes		
10 kg container		approx. 35	at 20° C and 50 % rel. humidity
Accessible after	hours	approx. 12	at 20° C and 50 % rel. humidity
Resilient after (full)	days	approx. 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	approx. 2	
Equipment cleaning agent	MC-Reinigungsmittel U		
Colour	MC-grey, approx. RAL 7032, approx. RAL 7035, 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 All/j (500 g/l) ≤ 500 g/l VOC		
GISCODE : RE90			

Note: The information in this data sheet must be adapted by the installer, specialist planner, and/or building inspector to the respective construction project, intended use, and specific local conditions. Any non-standard local conditions must be taken into account, and application-specific conditions must be reviewed in advance by the planner/specifier. Deviations from the specified standard conditions 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. [2500028965]