

MC-DUR 1101

Transparent, two-component, water-based epoxy resin binder



PRODUCT PROPERTIES

- water-based, solvent-free, two-component epoxy resin for use in industrial areas
- adheres to dry and damp mineral-based surfaces
- highly fillable with mineral aggregates
- resistant to high mechanical stress when filled with aggregates
- very easy application without bad odour

AREAS OF APPLICATION

- priming of dry and damp substrates
- binder for epoxy resin scratch- and levelling coats
- production of self-levelling coatings and reactive resin mortars
- for use in industrial areas or similar
- REACH-assessed exposure scenarios: long-term inhalation, application

APPLICATION ADVICE

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

Application as primer:

Application of MC-DUR 1101 as primer is carried out by means of rubber squeegee and/or roller. If it cannot be overworked within 24 hours the fresh primer is to be strewn with oven-dried quartzsand (0.1 - 0.3 mm).

Application as scratch coat: Scratch- and levelling coats of MC-DUR 1101/quartzsand are applied with steel floats, rubber squeegees and/or scrapers onto the primer. The scratch- and levelling coat consists of MC-DUR 1101 and oven-dried quartzsand (grain-size 0.1 –0.3 mm) mixed in a ratio of 1 : 1 p.b.w. If it cannot be overworked within 24 hours the fresh scratch coat is to be strewn with oven-dried quartz-sand (0.1 - 0.3 mm).

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.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	2:1	base component : hardener component
Density	g/cm ³	1.1	
Viscosity	mPa s	900	at 20°C and 50% rel. humidity
Working time	minutes		
9 kg container		approx. 45	at 20°C and 50% rel. humidity
30 kg container		approx. 35	at 20°C and 50% rel. humidity
Flexural strength	N/mm ²		
7 d		approx. 17	with quartz sand 0.1–0.3 mm
7 d		approx. 20	with special aggregate MC-Spezialkörnung SK 1
Compressive strength	N/mm ²		Mixing ratio 1:4 (GT)
7 d		approx. 38	with quartz sand 0.1–0.3 mm
7 d		approx. 45	with special aggregate MC-Spezialkörnung SK 1
Accessible after	hours	approx. 16	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		primer
Primer		approx. 0.3	
Scratch and levelling coat		approx. 0.6	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Equipment Cleaning Agent	water
Colour Shade	transparent
Delivery Form	9 and 30 kg packs
Storage	Can be stored in original sealed packages at temperatures between 5°C and 20°C in dry conditions for at least 18 months.
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 Allj (140 g/l) ≤ 140 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. [2100005447]