

MC-DUR 1101

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

Product Properties

- Water-based, 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

Substrate Preparation/ Mixing

See leaflets "General Application Advice":
"MC-Industrial Floors - Substrate and Substrate Preparation" and "Reactive Resins".

Application as primer

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

Application as scratch coat

Scratch- and levelling coats of MC-DUR 1101 and quartz-sand are applied with steel floats, rubber squeegees and/or scrapers onto the primer.

The scratch- and levelling coats consists of MC-DUR 1101 and oven-dried quartz-sand (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".

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 1101

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	2 : 1	base : hardener
Density	g/cm ³	approx. 1.100	-
Viscosity	mPa*s	approx. 900	at 20°C and 50% relative humidity
Pot life	minutes	approx. 45	at 20°C and 50% relative humidity
Resistance to foot traffic after...	hours	approx. 16	at 20°C and 50% relative humidity
Time until full resistance	days	7	at 20°C and 50% relative humidity
Resin: quartz sand 0.1 - 0.3 mm, p.b.w. = 1 : 4			
Compressive strength	N/mm ²	approx. 38	after 7 days
Bending tensile strength	N/mm ²	approx. 17	after 7 days
Resin: special aggregate SK 1, p.b.w. = 1 : 4			
Compressive strength	N/mm ²	approx. 45	after 7 days
Flexural strength	N/mm ²	approx. 20	after 7 days
Application conditions	°C	> 10 - < 30	air, material and substrate temperature
	%	< 85	relative humidity
	K	3	above dew point
Coverage	kg/m ²	0.250 - 0.300	primer/ bonding coat
		0.500 - 0.600	scratch coat

Product Characteristics for MC-DUR 1101

Cleaning agent	Water
Colour	Transparent
Delivery	15 kg pack
Storage	Can be stored in cool (> 5°C - < 25 °C) and dry conditions for at least 12 months in original unopened packs. Protect from frost!
Disposal	In the interest of the environment, please empty all packs completely & in accordance with local regulations.
EU-regulation 2004/42 (Decopaint standard)	RL2004/42/EG All/j (140/140g/l) max 3g/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 leaflet "Safety Measures for Handling Coating Materials and Reactive Resins".

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 02/2022 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.