



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

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 quartz-sand (0.1 - 0.3 mm).

Application as scratch coat

Scratch- and levelling coats of MC-DUR 1101/ quartz-sand 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 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".

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 1101

Characteristic	Unit	Value	Comments	
Mixing ratio	p. b. w.	2 : 1	base : hardener	
Density	g/cm ³	approx. 1.10	-	
Viscosity	mPa·s	approx. 900	9 kg pack at 20 °C and 50 % relative humidity	
Pot Life	9 kg pack 30 kg pack	minutes minutes	approx. 45 approx. 35	at 20 °C and 50 % relative humidity
Resistant to foot traffic after...	hours	approx. 16	9 kg pack at 20 °C and 50 % relative humidity	
Time until full resistance	days	7	9 kg pack at 20 °C and 50 % relative humidity	
Resin: aggregate p.b.w. quartz sand 0.1-0.3 mm 1:4				
Compressive strength	N/mm ²	approx. 38	after 7 days	
Bending tensile, strength	N/mm ²	approx. 17	after 7 days	
Resin: aggregate p.b.w. special aggregate SK1 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 % K	> 10 - < 30 < 85 3	air, material and substrate temperature relative humidity above dew point	
Coverage	kg/m ² kg/m ²	approx. 0.3 approx. 0.6	primer/bonding coat scratch-coat	

Product characteristics for MC-DUR 1101

Cleaning agent	water
Colour	transparent
Delivery	9 and 30 kg packs
Storage	Can be stored in cool (> 5 °C, < 20 °C) and dry conditions for at least twelve months in original unopened packs. Protect from frost!
Disposal	Packs must be emptied completely.
EU-regulation 2004/42 (Decopaint standard)	RL2004/42/EG All/j (140/140 g/l) max 3 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 04/09. 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.