



MC-DUR 111 D

Water-based, H317-free epoxy resin dispersion

Product Properties

- Water-based, two component epoxy resin for use in industrial areas
- does not cause skin sensitizing (in accordance to the GHS-marking)
- Adheres to dry as well as slightly damp mineral-based surfaces (no visible moisture)
- Resistant to water exposure, diluted acids and alkaline solutions, as well as numerous organic chemicals (see Table of Chemical Resistance)
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- GHS CODE: RE05 (Both components without H317)

Areas of Application

- Optically pleasing sealer for mineral-based substrates subject to light mechanical and chemical stress
- For use in industrial areas with light to moderate mechanical stress
- Colored coating of pre-cast elements
- 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".

Priming

Use MC-DUR 111 eco, mixed with water up to 10 %, as primer.

Application

After a waiting time of 12 - 48 hours MC-DUR 111 eco is applied crosswise and streak-free using a short-piled roller. Coverage rates must be observed. Usually two work steps are required to achieve an optimum colour design. The waiting time between the two work steps is min. 12 and max. 48 hours. The layers should be applied swiftly and without seams. The end of the application time cannot be determined by a higher viscosity of the material. Therefore MC-DUR 111 eco may not be used after its specified pot life. To ensure optimal drying a minimum surface- and air-temperature of 10 °C and a relative humidity of 85 % is permitted.

The intervals between the individual work-steps should not exceed 48 hours (at a temperature of 20 °C).

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 111 eco

Characteristic	Unit	Value	Comments
Mixing ratio	p. b. w.	17 : 10	base : hardener
Density	g/cm ³	approx. 1.35	-
Viscosity	mPa·s	approx. 1,200	at 20 °C and 50 % relative humidity
Application time	minutes	approx. 30	at 20 °C and 50 % relative humidity
Resistant to foot traffic after	hours	approx. 12	at 20 °C and 50 % relative humidity
Time until full resistance	days	7	at 20 °C and 50 % relative humidity
Application conditions	°C	≥ 10 - ≤ 30	air, material and substrate temperature
	%	≤ 85	relative humidity
	> K	3	above dew point
Coverage	kg/m ²	0.25 - 0.3	per work step
Layer thickness	µm	approx. 100	at 250 g/m ²

Product Characteristics for MC-DUR 111 eco

Colour	MC-grey; approx. RAL 7023, 7030, 7032, 7035, 7040 further colours on request
Delivery	10 kg packs
Cleaning agent	water
Storage	Can be stored in cool (below 20 °C) and dry conditions for 12 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 (500 g/l) ≤ 500 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: RE05

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 11/20. 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.