



# MC-DUR 111 D

Solvent-free, water-based,  
epoxy resin dispersion

## Product Properties

- solvent-free, water-based, two component epoxy resin for use in industrial areas
- 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)
- available as transparent impregnation or pigmented sealer
- high flash point (Class B 1/Din 4102)

## Areas of Application

- impregnation of mineral surfaces for dustproofing (MC-DUR 111 D, transparent)
- optically pleasing sealer for mineral-based substrates subject to increased mechanical and chemical stress
- oil- and benzene-resistant sealer for car-parks, garages, department stores, car-wash plants, etc.
- for use in industrial areas or similar

## Application

### Substrate Preparation / Mixing

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

### Application

MC-DUR 111 D may be applied by brush, roller or airless spraying technique, water must not be added. Mineral-based substrates are primed with MC-DUR 111 D transparent and afterwards sealed with two layers of MC-DUR 111 D pigmented. 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 D 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 required. 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 D

Characteristic	Unit	Value	Value	Comments
		MC-DUR 111 D transparent	MC-DUR 111 D pigmented	
Mixing ratio	p. b. w.	3:1	3:1	base : hardener
Density	g/cm <sup>3</sup>	approx. 1.03	approx. 1.35	-
Viscosity	mPa·s	< 100	1,200	at 20 °C and 50 % relative humidity
Pot life	minutes	approx. 120	approx. 120	at 20 °C and 50 % relative humidity
Resistant to foot traffic after...	hours	approx. 16	approx. 16	at 20 °C and 50 % relative humidity
Time until full resistance	days	7	7	at 20 °C and 50 % relative humidity
Application conditions	°C % > K	≥ 10; ≤ 30 ≤ 85 3	≥ 10; ≤ 30 ≤ 85 3	air and substrate temp. relative humidity above dew point
Coverage	kg/m <sup>2</sup>	0.2-0.25	0.25-0.3	per work step
Layer thickness	µm	approx. 65	approx. 100	at 250 g/m <sup>2</sup>

## Product Characteristics for MC-DUR 111 D

	MC-DUR 111 D transparent	MC-DUR 111 D pigmented
Colour	transparent	MC-grey; approx. RAL 1001, 3009, 6011, 7023, 7030, 7032; further colours on request
Delivery	10 and 30 kg packs	10 and 30 kg packs
Cleaning agent	water	water
EU-regulation 2004/42 (Decopaint standard)	RL2004/42/EG All/j (140/140 g/l) max 41 g/l VOC	RL2004/42/EG All/j (140/140 g/l) max 37 g/l VOC
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost!	
Disposal	Packs must be emptied completely.	

### Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

**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 12/2006. 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.