



# MC-DUR 1103 M

## Matt, two-component epoxy resin dispersion

### Product Properties

- Self-levelling, diffusible, matt coating/sealer with high chemical and mechanical resistance, also usable for slightly damp substrates
- For smooth and anti-skid coatings
- Easy application without bad odour

### Areas of Application

- Ground-connected, highly loaded areas, e.g. underground car parks
- Interior surfaces in many industrial areas
- Examples: production areas, supermarkets, building centers, store rooms and offices where a highly loadable, matt coating is necessary
- 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

The prepared substrate is primed with the solvent-free, transparent, two-component epoxy resin MC-DUR 1101. Please refer to our technical data sheet "MC-DUR 1101".

#### Scratch coat

After priming, pores and blow holes are closed with a scratch coat. This coat consists of MC-DUR 1101 mixed with oven-dried quartz-sand (grain size: 0.1 - 0.3 mm). Please refer to our technical data sheet "MC-DUR 1101".

#### Application

MC-DUR 1103 M should be applied with a steel float or a rubber-squeegee. The freshly laid area should then be deaerated cross-wise with a spiked roller. Water-based MC-DUR 1103 M loses volume while curing.

To achieve anti-skid coatings MC-DUR 1103 M is filled with oven-dried quartz sand (0.1 - 0.3 mm). After application the fresh coating is strewn imme-

diately in excess with oven-dried quartz sand of grain size 0.2 – 0.7 mm. After removing all loose sand, two sealer coats of MC-DUR 1103 M are applied on top of the scratch-coat.

MC-DUR 1103 M is applied in two work steps by roller if used as a matt sealer. This applies to horizontal as well as vertical areas.

#### 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 1103 M

Characteristic	Unit	Value	Comments
Mixing ratio	p. b. w.	4 : 1	base : hardener
Density	g/cm <sup>3</sup>	approx. 1.50	-
Viscosity	mPa·s	approx. 1,200	at 20 °C and 50 % relative humidity
Pot life	minutes	approx. 20	at 20 °C and 50 % relative humidity
Resistant 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 (pure)			
Compressive strength	N/mm <sup>2</sup>	approx. 37	after 7 days
Bending tensile strength	N/mm <sup>2</sup>	approx. 5	after 7 days
Resin: aggregate p.b.w. quartz sand 0.1-0.3 mm (mixing ratio 1 : 0.5)			
Compressive strength	N/mm <sup>2</sup>	approx. 38	after 7 days
Flexural strength	N/mm <sup>2</sup>	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 <sup>2</sup> kg/m <sup>2</sup> kg/m <sup>2</sup>	approx. 0.4 max. 2.5 0.4 - 0.5	sealer (per work step, two work steps are necessary) coating top coat

## Product Characteristics for MC-DUR 1103 M

Cleaning agent	water
Colour	MC-grey, approx. RAL 1001, 7023, 7030, 7032; further colours on request
Delivery	10 and 30 kg packs
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least 1 year 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 17 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.