



# MBC-VT 116

## Heat-resistant epoxy resin

### Product Properties

- Two-component, red-transparent epoxy resin
- Electric breakdown resistor > 500 mega-ohm
- Coating of fresh concrete (age > 7 days according to TL/TP BEL-EP)

### Areas of Application

- Priming, sealing or scratch coating of road surface plates according to ZTV-ING, part 7
- Sealing of parking decks, ramps, troughs, etc. under the approved felt systems
- REACH-assessed exposure scenarios: periodical water-contact, application
- Concrete replacement system from polymer concrete (PC) according to TL BE-PC

### Application

#### Substrate Preparation/Mixing

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

#### Application

See ZTV-ING, part 7.

##### 1. Primer

The prepared concrete surface is primed by flooding in at least one work-step until saturated (approx. 300 - 500 g/m<sup>2</sup>). Afterwards the material is smoothed with a lamb-skin roller. Material accumulations must be avoided. The fresh primer must be strewn with oven-dried quartz-sand (0.2 - 0.7 mm) with a coverage of approx. 500 - 800 g/m<sup>2</sup>. Loose quartz-sand must be removed after the primer has hardened.

##### 2. Sealing

The sealer is applied in two work-steps. First a primer (see above) is applied with a coverage of min. 400 g/m<sup>2</sup>, which is strewn in excess with oven-dried quartz-sand (0.7 - 1.2 mm) while still fresh. Loose quartz-sand must be removed after the primer has hardened.

During the second work-step a sealer is applied with a coverage of at least 600 g/m<sup>2</sup> and spread in such a way that material accumulations are avoided. The surface is not strewn.

##### 3. Scratch Coat

The scratch coat, consisting of MBC-VT 116 and oven-dried quartz sand (grading curve

according to execution instruction) is applied in a mixing ratio or 1 : 3 - 1 : 4 p.b.w. onto a fresh or hardener primer. The fresh scratch coat is strewn with oven-dried quartz-sand (0.2 - 0.7 mm) with a coverage of approx. 500 - 800 g/m<sup>2</sup>. Loose quartz-sand must be removed after the scratch coat has hardened. Larger holes and depressions must be levelled according to ZTV-ING, part 3, passage 4.

#### Applikation as polymer concrete

The polymer concrete consists of MBC-VT 116 and quartz sand (special grain SK 2, mixing ratio 1 : 8 by weight). The mortar must always be applied directly onto a bonding agent of MBC-VT 116 (approx. 400 g/m<sup>2</sup>).

#### 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 MBC-VT 116

Characteristic	Unit	Value	Comments
Mixing ratio	p. b. w.	3 : 1	base : hardener
Density	g/cm <sup>3</sup>	approx. 1.1	-
Viscosity	mPa·s	approx. 560	at 20 °C and 50 % relative humidity
Application time	minutes	35	at 20 °C and 50 % relative humidity
Resistant to foot traffic...	hours	approx. 18	at 20 °C and 50 % relative humidity
Overcoating time	hours	approx. 24	with welding track
Application conditions	°C	8 - 30	air, material and substrate temperature
	%	≤ 75	relative humidity
	K	3	above dew point
Coverage	kg/m <sup>2</sup>	approx. 0.3 - 0.5	primer
		approx. 0.9 - 1.1	sealer
		approx. 0.5	scratch coat (mixing ratio 1:3)

### Product Characteristics for MBC-VT 116

Cleaning agent	MC-Reinigungsmittel U
Colour	red-transparent
Delivery	30 kg packs
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least 24 month 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: 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 08/20. 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.