

MC-DUR 1177 WV-A

Transparent epoxy resin for industrial flooring



PRODUCT PROPERTIES

- Two-component, transparent, water-dispersed epoxy resin
- Adhesion on pale damp, mineral substrates
- Reduces evaporation of water in fresh concrete

AREAS OF APPLICATION

- Primer under/on polymer-cement coatings and under reaction resin sealers
- Impregnation of concrete and screed surfaces
- Curing of fresh concrete, especially in chemically loaded areas
- Vertical application for wind power tower and power plants
- REACH-assessed exposure scenarios: periodical water-contact, long-term inhalation, application

APPLICATION ADVICE

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

Priming under self-levelling PCC floor coating: The substrate is primed with MC-DUR 1177 WV-A (coverage approx. 200 - 400 g/m²). The fresh primer is slightly strewn (< 1 kg/m²) with oven-dried quartz sand (0.3 - 0.8 mm). After reaching of walkability (the milky effect must have faded), at the latest after 24 hours (at 20 °C), follows the second priming with MC-DUR 1177 WV-A (coverage approx. 200 - 400 g/m²) and a fresh in fresh application Emcefloor PCC.

Priming on self-levelling PCC floor coatings: The polymer-cement coating must be at least 48 -72 hours old (at 20 °C). MC-DUR 1177 WV-A is applied using a roller, coverage approx. 150 - 200 g/m². The fresh primer is immediately strewn with < 1 kg/m² of oven-dried quartz sand (0.1 - 0.3 mm). The primer can be overcoated after a waiting time of approx. 12 hours (at 20 °C).

Priming under reaction resin sealers: MC-DUR 1177 WV-A is applied using a roller, coverage approx. 150 - 200 g/m². The sealer can be applied after a waiting time of min. 6 to max. 24 hours (at 20 °C).

Impregnation and curing of green concrete: MC-DUR 1177 WV-A is applied using a roller, coverage approx. 100 - 250 g/m².

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". "Greasy" films and puddles must be avoided. MC-DUR 1177 WV-A should not be used during rain or at temperatures below + 8 °C. 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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	56 : 44	base component : hardener component
Density	kg/dm ³	1.05	
Viscosity	mPa s	250	at 20° C and 50 % rel. humidity
Working time	minutes	approx. 60	at 20° C and 50 % rel. humidity
Accessible after	hours	approx. 6	at 20° C and 50 % rel. humidity
Application conditions	°C	≥ 8 ≤ 30	air, substrate and material temperatures
	%	≤ 85	rel. humidity
	K	3	above dew point
Consumption	kg/m ²		
Priming, impregnation and curing of the fresh concrete		approx. 0.1 - 0.4	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Equipment cleaning agent	water
Colour	transparent
Delivery form	Box of 6 x 0.5 kg pack 10 kg and 30 kg packs
Storage	Can be stored in cool (below 20°C) and dry conditions for 12 months in original unopened packs. Protect from frost.
Packaging disposal	Make sure single-use containers are completely empty.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG Allj (140 g/l) ≤ 140 g/l VOC

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : RE30

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300019024]