



MC-DUR 1177 WV-A (vertical)

Transparent epoxy resin for use in power plant construction (vertical areas)

Product Properties

- Two-component
- Suitable on highly alkaline mineral-based substrates
- Adheres to damp concrete
- Slows the evaporation process of the water in green concrete
- Increases mechanical and chemical resistance of freshly demoulded concrete surfaces
- Application by brush, roller and spraying

Areas of Application

- Priming or sealing of damp, green concrete on vertical areas directly after removal of the mould
- Priming of vertical areas as part of a system with water-based epoxy resin sealers
- Curing of green concrete, especially in chemically loaded areas
- Waterproofing of concrete surfaces
- REACh-assessed exposure scenarios: periodical water-contact, long-term inhalation, application

Application

Substrate Preparation/Mixing

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

If used in slipform or climbing form systems the following directions must be observed:

Slipform Construction

The freshly demoulded concrete surface has to be treated and smoothed using wooden floats. Pores and blow holes as well as cement slurries must be completely removed before MC-DUR 1177 WV-A is applied.

Climbing Form Construction

The substrate must be clean and free from all loose particles, dust, oil and other contaminants. There must be no residues from the mould release agents. Pores and blow holes must be properly closed before application.

Application

MC-DUR 1177 WV-A may be applied by brush, roller or airless spraying. MC-DUR 1177 WV-A

should be rolled on if used for curing of green concrete.

The maximum layer thickness for MC-DUR 1177 WV-A must not be exceeded. For priming we recommend a coverage of approx. 100 - 150 g/m² depending on the absorbency of the substrate. Thick layers as well as "puddles" must be avoided.

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".

MC-DUR 1177 WV-A should not be used in 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 Data for MC-DUR 1177 WV-A

Characteristic	Unit	Value	Comments
Mixing ratio	p. b. w.	56 : 44	base : hardener
Density	g/cm ³	approx. 1.05	
Viscosity	mPa·s	250	at 20 °C and 50 % relative humidity
Pot Life	minutes	approx. 60	at 20 °C and 50 % relative humidity
Dust dry (depending on climate)	hours	approx. 6	at 20 °C and 50 % relative humidity
Overcoating time	hours	approx. 6	at 20 °C and 50 % relative humidity
Time until full resistance	days	7	at 20 °C and 50 % relative humidity
Application conditions	°C % K	≥ 8; ≤ 30 ≤ 85 3	air, material and substrate temperature relative humidity above dew point
Coverage	kg/m ²	approx. 0.1-0.15	depending on work step and absorbency of the substrate

Product characteristics for MC-DUR 1177 WV-A

Cleaning agent	water
Colour	transparent
Delivery	10 and 30 kg packs
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least twelve 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 (140/140 g/l) max 24 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 09/11. 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.