

MC-DUR 1000 Parat 09

Pigmented, two-component epoxy resin levelling mortar for structural strengthening

Product Properties

- Solvent-free, two-component mortar based on epoxy resin (PC)
- High mechanical strength
- Stable
- Rapid strength development even at low temperatures ($\geq 8\text{ °C}$)
- Tested as levelling mortar for the MC-CFK system
- General approval by the building authorities no. Z-36.12-77 and Z-36.12-79

Areas of Application

- Levelling of voids and blowholes in horizontal, vertical and overhead concrete surfaces
- Levelling of concrete surfaces for an evenness $\leq 5\text{ mm}$
- Approved levelling mortar for structural strengthening with the MC-CFK system
- REACh-assessed exposure scenarios: periodical water-contact, long-term inhalation, application

Application

System Products

The levelling mortar MC-DUR 1000 Parat 09 is only used with the bonding coat MC-DUR 1009 HB.

Substrate Preparation/Mixing

See leaflets "General Application Advice": "Industrial Flooring – Substrate and Substrate Preparation" and "Reactive Resins". See respective general approval by the building authorities.

Bonding Coat

MC-DUR 1009 HB, applied using a brush or roller. See technical data sheet "MC-DUR 1009 HB".

Application

MC-DUR 1000 Parat 09 is applied fresh-in-fresh onto the previously applied bonding coat, using a trowel, scraper or similar tools.

Application must be carried out that an optimum compaction of the mortar is accomplished while, at the same time, maintaining an even surface (roughness $\leq 5\text{ mm}$). In case of higher layer thicknesses on vertical or overhead surfaces the existing temperatures and the surface roughness must be observed.

General information

High temperatures shorten and low temperatures extend all indicated times. As a general rule of thumb a temperature change of 10 °C either halves or doubles the indicated pot life respectively.

Safety Advice

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



Technical Data for MC-DUR 1000 Parat 09

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.w.	82 : 18	base : hardener
Density	kg/dm ³	approx. 1.8	
Viscosity	mPas	paste-like	
Coverage	kg/m ²	approx. 1.8	per mm layer thickness
Layer thickness / stability	mm	approx. 2 - 10	
Pot life	minutes	approx. 60 approx. 30 approx. 15	at + 10 °C at + 20 °C at + 30 °C
Minimum application conditions	°C % K	≥ 8 - ≤ 30 ≤ 85 3	air and substrate temperature relative humidity above dew point
Expansion coefficient α_T	K ⁻¹	2.7x10 ⁻⁵	
Compressive strength	MPa	62 74	1 day 7 days
Flexural tensile strength	MPa	30 33	1 day 7 days
E-Modulus	MPa	approx. 9,200	
Pull-off strength	MPa	≥ 3.0	1 day concrete (stamp Ø 50 mm) valid for all types of storage; 100 % fracture of concrete

* All technical data relate to 20 °C and 50 % relative humidity.

Product Characteristics for MC-DUR 1000 Parat 09

Cleaning agent	MC-Reinigungsmittel U
Colour	grey
Delivery	10 kg packs
Storage	Can be stored in original sealed packages at temperatures below 20 °C in dry conditions for at least 1 year. Protect from frost! The same requirements are valid for transport
Disposal	Packs must be emptied completely.

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 07/10. 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.