MC-DUR 1077 FG

Transparent, two-component epoxy resin binder for casting and grouting mortars

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- Unfilled epoxy resin with special creep- and levelling properties for manufacturing grouting mortars
- Especially good heat/shape stability for cold-curing epoxy resins
- Excellent levelling properties
- Ready-formulated casting- and grouting mortar
- Low heat-development during curing, even for larger application volumes
- Good resistance against numerous chemicals, including oils and greases

AREAS OF APPLICATION

- In combination with the MC-Special graining FG for manufacturing casting- and grouting mortars for application on machine foundations, mill foundations, crane tracks etc.
- REACH-assessed exposure scenarios: periodical water-contact, periodical inhalation, application

APPLICATION ADVICE

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

Mixing: MC-DUR 1077 FG consists of a base and a hardener component delivered in pre-packed quantities. Before application the base and the hardener must be mixed together thoroughly, using a slowly rotating mixer. After mixing the compound must be refilled into another clean container and briefly mixed again. The ready-to-use grouting mortar is made by mixing MC-DUR 1077 FG (resin) and MC-Spezialsand FG (special-grain). The components are supplied in pre-packed quantities. One bucket of resin is mixed with two bags aggregate. The aggregate is put into a forced mixer, then the mixed resin is added. Afterwards it is mixed until homogenous. Collection of air, e.g. due to exceedingly high revolutions, must be avoided.

Application: Application of the finished grouting mortar depends on local factors. In any case it is necessary to provide sufficiently sized ventilation holes.

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”.
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.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Resilient after (mechanically)	hours	24	at 20° C and 50 % rel. humidity
Resilient after (mechanically full)	days	7	at 20° C and 50 % rel. humidity
Flexural strength	N/mm²		at 20° C and 50 % rel. humidity
7 d		approx. 31	
28 d		approx. 34	
Density	g/cm³	approx. 1.1	pure binding agent
		approx. 2.1	Grouting mortar
Compressive strength	N/mm²		at 20° C and 50 % rel. humidity
24 h		approx. 111	
28 d		approx. 124	
Modulus of elasticity	N/mm²	approx. 11,000	
Linear coefficient of thermal expansion	αT	approx. 3.0·10 K	
Mixing ratio [1)]	Packing Unit	1 : 2	resin : aggregate
	mass fractions	4 : 1	base component : hardener component
		1 : 5.75	resin : aggregate
Temperature	°C	50	maximum
Application conditions	°C	≥ 10 ≤ 30	air, substrate and material temperatures
	%	≤ 85	rel. humidity
	K	3	above dew point
Working time	minutes	45	at 20° C and 50 % rel. humidity
Consumption	kg/m²/mm	2.1	

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

1) aggregate is MC-Spezialkörnung FG

Equipment cleaning agent	MC-Reinigungsmittel U
Delivery form	8.7 kg packs (MC-DUR 1077 FG) and 25 kg bags (MC-special aggregates FG)
Storage	Can be stored in cool (below 20°C) and dry conditions for 24 months in original unopened packs. Protect from frost.
Packaging disposal	Make sure single-use containers are completely empty.

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

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