



# Emcekrete 60 EF

## Hydraulically curing grouting mortar

### Product Properties

- Ready to use - simply mix with water
- Highly flowable, high early and final strengths
- Swellable, shrink compensated
- High adhesive tensile strength on properly treated concrete surfaces
- Pumpable, chloride free acc. to EN 934-1
- Very high resistance to frost and de-icing salts acc. to CDF test (weathering 498 g/m<sup>2</sup>, 56 FTC)
- Non-flammable according to EN 13501- class A1
- Certified as a grouting mortar according to DAfStb guideline "Production and use of cement-based grouting concrete and mortar"
- Certified as an anchoring product according to EN 1504-6

### Areas of Application

- Grouting of precision machinery, machine foundations, bridge bearings, crane rails, turbines, engines, steel-constructions
- Grouting of fastening bolts, steel elements in concrete, rigid joints between pre cast elements or between pre cast elements and in-situ concrete
- Suitable according to EN 206 for exposure classes XO, XC 1-4; XD 1-3; XS 1-3; XA 1-3 and XF 1-4
- Exposed to alkali silica reaction for moisture classes WO, WF, WA

### Application Notes

#### Substrate Preparation

Please refer to the data sheet "General Application Advice for hydraulically cured grouting concrete and grouting mortars".

#### Mixing

Please refer to the data sheet "General Application Advice for hydraulically cured grouting concrete and grouting mortars".

#### Mounting

Please refer to the data sheet "Application Advice for hydraulically cured grouting concrete and grouting mortars".

#### Note

Emcekrete 60 EF has excellent adhesive properties on well prepared substrates. The use of bonding agents, especially reactive polymer-based ones, is not permissible.

Emcekrete 60 EF is pumpable using suitable equipment. Please ask for our technical assistance.

#### Curing

Please refer to the data sheet "Application Advice for hydraulically cured grouting concrete and grouting mortars".



## Technical Data for Emcekrete 60 EF

Characteristic	Unit	Value*	Comments
Grain size	mm	0 - 1.2	
Grouting thickness	mm	5 - 25	acc. to VeBMR guideline
Added water	l	3.0 - 3.25	per 25 kg bag
Flowability class		f1	(550 mm ≤ f1 ≤ 640 mm)
Swelling	%	> 0.1	
Shrinkage class		SKVM II	ε <sub>s</sub> , m, 91 ≤ 1.2 ‰
Early strength class		A	(f <sub>c</sub> , cube, 24 h ≥ 40 N/mm <sup>2</sup> )
Flexural / Compressive strength (Air chamber)	N/mm <sup>2</sup>	6.0/50.0** 7.5/72.0** 8.5/73.0**	after 1 day after 7 days after 28 days
Compressive str. class	N/mm <sup>2</sup>	C50/60	
Coverage	kg/dm <sup>3</sup>	2.01	
Wet gross density	kg/dm <sup>3</sup>	2.26	
Freeze thaw with de-icing salts	g/m <sup>2</sup>	498	weathering, 56 FT-cycles acc. to CDF
Processing temperature	°C	> +5 < +35	air/substrate/material temperature
Processing time	minutes	60 45 30	at + 5 °C at + 20 °C at + 35 °C

## Product characteristics for Emcekrete 60 EF

Internal production monitoring	DIN EN ISO 9001
Storage	Can be stored for at least 12 months in closed packs under dry and frost-free conditions.
Form of Delivery	25 kg bag; 1 pallet (40 bags of 25 kg each)
Disposal	To protect our environment please empty the packs completely.

\* according to VeBMR guide line of DAfStb; please request our consulting!

\*\* prism: 40x40x160 mm

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

### Safety advice

Please note the safety information and advice given on the packaging labels, safety data sheets and general application advice. GISCODE: ZP1

**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 06/20. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technical-ly revised new edition is issued, this edition becomes invalid.