

# Emckrete FH 10

**Fast hardening grout mortar  
with early load-bearing capacity**

## Product Properties

- Ready to use - just mix with water
- Tightly flowable
- High early and final strengths
- Quick strength development, even at low temperatures
- Resistant to oil, water and deicing salts
- Shrink compensated (DBV 5.6. data sheet)

## Areas of Application

- Grouting under precision machinery, machine foundations, bridge bearings, crane rails, turbines, engines, steel constructions etc.
- Grouting of steel elements in concrete
- Filling of openings and cut-outs in the concrete
- Grouting under sagging manhole frames to level them with the surrounding road surface

## Application Notes

**Not suitable for grouting large surface areas.**

### Substrate Preparation

Please refer to the data sheet “General Handling Information for Hydraulically Curing Grouts”.

### Mixing

Please refer to the data sheet “General Handling Information for Hydraulically Curing Grouts”.

In contrast to the advices in the “General Handling Information for Hydraulically Curing Grouts”, the mixing time for Emckrete FH 10 is at least 5 minutes. A workable consistency is achieved only after this time.

### Mounting

Please refer to the data sheet “General Handling Information for Hydraulically Curing Grouts”.

### Note

Emckrete FH 10 has excellent adhesive capabilities on properly prepared substrates. The use of bonding agents, especially reactive polymer-based materials, is not permissible.

### Curing

Please refer to the data sheet “General Handling Information for Hydraulically Curing Grouts”.



## Technical Data for Emckrete FH 10

Characteristic	Unit	Value	Comments
Grain Size	mm	0 - 1.2	
Grouting level	mm	5 - 40	
Mixing Ratio	l	3.5 - 4.0	water : per 25 kg bag
Gross Wet Density	kg/dm <sup>3</sup>	2.20	
Consumption	kg/dm <sup>3</sup>	1.92	
Fluidity	mm	600	after 5 minutes at 20 °C
Swelling	%	+ 0.3	
Flexural Strength	N/mm <sup>2</sup>		at + 20 °C
after 4 hours		0.9	
after 24 hours		4.4	
after 7 days		6.0	
after 28 days		7.5	
Compressive Strength	N/mm <sup>2</sup>		at + 20 °C
after 4 hours		2.5	
after 24 hours		30.0	
after 7 days		38.0	
after 28 days		52.0	

## Product characteristics for Emckrete FH 10

Internal Production Supervision in	accordance with DIN EN ISO 9001
Resistant to Frost-thawing Agent	yes
Processing Temperature	at least + 5 °C
Processing Time at 20 °C	20 minutes
Storage	Can be stored for at least 12 months in closed packs under frost free and dry 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.

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.

**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 06/13. 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.