

# Emckrete SFM thix

Thixotropic mortar for joints and fixing holes



## PRODUCT PROPERTIES

- Cement-based, ready to use - simply mix with water
- Exceptionally soft and smooth
- High initial and final strength values
- Chloride-free, non-shrinking
- High sulphate resistance, frost-resistant
- Water impermeable acc. to EN 12390-8
- Good stability, suitable for overhead applications
- High adhesive tensile strength on properly pre-treated substrate
- For joint filling with MC-HM Pump (manual mortar pump)
- For filling fixing anchor holes using the MC-HMA Pump (manual mortar pump)
- Pumpable
- Non-flammable to EN 13501-class A1
- Registered with DGNB (Code: 5M9M2R)

## AREAS OF APPLICATION

- For void-free, rigid filling (using the MC-HMA Pump) of
  - Fixing anchor holes
- For the vertical and horizontal filling (using the MC-HM Pump) of
  - Joints, e.g. segment joints in prefabricated construction
  - Door frames
  - Spiral anchors for masonry

## APPLICATION ADVICE

**General:** Emckrete SFM thix is an exceptionally smooth and soft, thixotropic filling mortar with controllable swelling properties.

**Substrate Preparation:** The fixing holes or segment joints to be filled must be free of dirt, oils, grease and other adhesion-reducing substances. Dry or highly absorbent substrates must be adequately pre-wetted. Ensure effective removal of all excess water.

**Mixing:** Emckrete SFM thix is mixed with a compulsory mixer or with a slow-running agitator, ensuring a mixing time of at least 3 minutes. Pour the mortar into predosed, clean water and mix until totally lump-free. Only mix whole bags.

**Application Method:** Once mixed, apply Emckrete SFM thix immediately. Using the manual mortar pump MC-HM Pump enables vertical and horizontal joints to be filled without formwork.

The MC-HMA Pump is particularly suitable for the rigid filling of fixing anchor holes. Emckrete SFM thix can be pumped, e.g. with spiral pumps such as the Putzmeister S5 EVTm or PFT ZP 3 XL incl. Multimix compulsory mixer.

**Curing:** Emckrete SFM thix must be protected from drying out too quickly due to direct sunlight and wind. Conventional curing time takes 3 days.

**Further Information:** Stiffened mortar cannot be made workable again either with water or with fresh mortar.

Differing ambient and application temperatures will affect the hardening process.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Working time	minutes	60	at 5°C
		45	at 20°C
		30	at 35°C
Application conditions	°C	≥ 5 ≤ 35	air, substrate and material temperatures
Maximum grain size	mm	1	
Compressive strength (storage in water)	N/mm <sup>2</sup>		
		24 h	22.3
		7 d	51.7
		28 d	65.5
Flexural strength (storage in water)	N/mm <sup>2</sup>		
		24 h	4.5
		7 d	8.4
		28 d	9
Water addition	l	approx. 5 - 5.1	per 25 kg
Mixing time	minutes	3	
E-modulus (dynamic)	N/mm <sup>2</sup>	21.500	after 28 days
Swelling dimension	%	approx. 1.8	
Dry bulk density	kg/dm <sup>3</sup>	2.02	
Shrinkage	mm/m	1.78	after 28 days
Yield	l	approx. 13.5	per container

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

Colour Shade	grey
Delivery Form	25 kg bag; 1 pallet (48 bags @ 25 kg)
Self-Monitoring	EN ISO 9001
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Equipment Cleaning Agent	water
Packaging Disposal	Make sure single-use containers are completely empty. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.

### Safety instructions

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

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2200005885]