

# Emckrete UFM 1

Hydraulically setting packing mortar



## PRODUCT PROPERTIES

- Ready to use - just mix with water
- High early and final strength
- Steady and overhead applicable
- Swellable, shrink compensated
- High adhesive tensile strength on properly treated concrete surfaces
- Chloride free
- High carbonation resistance acc. to EN 13295
- Water impermeable according to EN 12390-8
- Non-flammable according to EN 13501- class A1
- Registered with DGNB (Code: WPD6EM)
- Certified according to EN 1504-3, class R3

## AREAS OF APPLICATION

- Underfilling of ceiling and wall connections
- Closing rigid precast joints
- Certified according to EN 1504-3 for principles 3 and 7, procedures 3.1, 3.2, 7.1 and 2

## APPLICATION ADVICE

**Substrate Preparation:** Please refer to the data sheet "General Application Advice for Hydraulically Curing grout concrete and grout mortars".

**Mixing:** Please refer to the data sheet "General Application Advice for Hydraulically Curing grout concrete and grout mortars".

**Pre-wetting:** The substrate is wetted so that it is mat-damp yet still absorbent.

**Application:** Immediately after mixing the mortar must be applied. Emckrete UFM is applied with a trowel or a filling trowel. During the application and within the first hours after mounting it is necessary to prevent vibrations and oscillations of the mortar.

**Curing:** Please refer to the data sheet "General Application Advice for Hydraulically Curing grout concrete and grout mortars".

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Working time	minutes	approx. 30	
Application conditions	°C	$\geq 5 \leq 35$	air, substrate and material temperatures
Consumption	kg/m <sup>2</sup>	1.99	per mm layer thickness
Maximum grain size	mm	1.2	grading curve from 0 mm
Compressive strength	N/mm <sup>2</sup>		
24 h		54	
28 d		72.6	
56 d		76	
Flexural strength	N/mm <sup>2</sup>		
24 h		6.1	
28 d		8.1	
28 d		8.6	
Tensile strength	N/mm <sup>2</sup>	> 2	EN ISO 1542
Resistance to carbonation	mm	< 0.2	EN 13295
Water addition	l	approx. 3 - 3.25	per 25 kg
Swelling dimension	%	> 0.1	
Water penetration depth	mm	30	at 5 bar gauge pressure per EN 12390-8
Layer thickness	mm	$\geq 3 \leq 10$	

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

Delivery form	25 kg bag; 1 pallet (40 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.
Packaging disposal	Make sure single-use containers are completely empty.
Form	pulverous

### 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. [2300018594]