

# Emckrete DBS 5-F

Hydraulically setting flash grout



## PRODUCT PROPERTIES

- Fast hardening grout
- Ready to use - just mix with water
- Extremely high early strengths
- Highly flowable
- Shrink compensated
- Chloride free
- Frost resistant
- Tested according to VeMBR - Rili of DAfStb
- Certified according to EN 1504-6
- Registered with DGNB (Code: T6G9MC)
- GISCODE: ZP1

## AREAS OF APPLICATION

- Grouting work where early loading is required
- Grouting of rail pylons
- Grouting of masts

## APPLICATION ADVICE

**Description:** Emckrete DBS 5-F is a fast hardening grout. Emckrete DBS 5-F is easy to mix with water, highly flowable, shrinkage free, chloride free, frost resistant and without risk of demixing. Emckrete DBS 5-F has a good adhesion to concrete and steel. The binding agent of Emckrete DBS 5-F is certified according to DIN EN 197.1, the aggregates according to DIN EN 12620 and DIN EN 13139 and the admixtures according to DIN EN 934-2.

**Substrate preparation:** Please refer to the data sheet "General Application Advice for hydraulically curing grouts".

**Mixing:** The mixing-time for Emckrete DBS 5-F is 120 seconds divergently to the data sheet "General Application Advice for hydraulically curing grouts".

**Form work instructions:** Please refer to the data sheet "General Application Advice for hydraulically curing grouts".

The form work has to be leak proof and preferably not absorbent. The grout must be applied without cavities. Furthermore the product should be applied without interruption. Please take extra care to let all air blow out from the grouting area.

**After treatment:** Please refer to the data sheet "General Application Advice for hydraulically curing grouts".

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Working time	minutes	approx. 3 - 5	at 20° C
Application conditions	°C	≥ 5 ≤ 30	air and substrate temperatures
Consumption	kg/dm <sup>3</sup>	2.29	
Maximum grain size		≤ 4	grading curve from 0 mm
Compressive strength	N/mm <sup>2</sup>		
1 h		approx. 10	determined using the prism (mm) 40 x 40 x 160
24 h		approx. 16	determined using the prism (mm) 40 x 40 x 160
28 d		approx. 51	determined using the prism (mm) 40 x 40 x 160
Flexural strength	N/mm <sup>2</sup>		
1 h		approx. 2	determined using the prism (mm) 40 x 40 x 160
24 h		approx. 4	determined using the prism (mm) 40 x 40 x 160
28 d		approx. 7	determined using the prism (mm) 40 x 40 x 160
Slump dimension	mm	≥ 20 ≤ 30	Vicat ring without tapping
Water addition	l	approx. 3.25	
Swelling dimension	%		water storage at 20 °C
24 h		approx. 0.1	per VeBMR-RiLi of the DAfStB
Layer thickness	mm	12	minimum total layer thickness
Yield	l	11	per container

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

Delivery form	25 kg bags; 1 pallet (40 bags @ 25 kg)
Self-monitoring	EN ISO 9001
Storage	Can be stored in cool and dry conditions for at least 3 months in original unopened packs.
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 : 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. [2300018583]