

# MC-Floor Screed classic

cement based screed mortar



## PRODUCT PROPERTIES

- Ready to use - simply mix with water Polymer modified
- Low shrinkage
- Can be applied in layer thickness between 10 mm and 60 mm per work step Can be pumped with screed-pumps
- Quickly loadable
- Easy manual processing, can be worked with blade trowels Frost-resistant when completely hardened
- Frost-thaw resistant according to DIN CEN/TS 12390-9
- Strength category EN 13813-CT-C40-F6-A15-B1.5

## AREAS OF APPLICATION

- Levelling of uneven cement screed- and concrete floors
- Levelling and manufacture of screeds on steeply sloped areas, e.g. ramps
- Manufacture of screeds on separating layers and compound screeds in indoor and outdoor areas

## APPLICATION ADVICE

Floor heating must be turned off 24 hours before the application of MC-Floor Screed classic. Depending on the intended use and the area of application of MC-Floor Screed classic the relevant technical regulations, EN 13813 must be observed.

### Substrate Preparation for Compound Screeds and Repair Work

For a composite application the use of the high-quality bonding agent MC-Estribond MB is necessary to improve the adhesion. On the substrate preparation please observe the information of the relevant technical data sheets for the bonding agent.

### Substrate Preparation for Screed on Separating Layer

No bonding agent is necessary for applications on a separating layer. The substrate must be smooth and load-bearing and allow for an even layer-thickness.

### Mixing

For mixing 2.3 litre of fresh water are filled into a clean container. Remember that, as with any cementitious product, the water requirement may vary. The content of the 25 kg pack MC-Floor Screed classic is added bit by bit under continuous stirring. Use slow moving agitators for mixing (max. 400 rpm).

Agitators with two counter rotating paddles are optimal, e.g. beba mixer B7, Collomix RGE 162 Duo, etc. Forced mixers are also suitable. The mixing takes approx. 2-3 minutes. An "earth-moist" consistency is necessary for processing. Partially cured material must not be stirred and/or used again. The freshly applied and processed mortar, if it is already hardening, must not be re-touched or rubbed down.

### Application

MC-Floor Screed classic is worked into the fresh bonding layer in a single layer. MC-Floor Screed classic must only be processed at substrate and ambient temperatures of at least + 5 °C.

### Curing

During the curing period the freshly applied MC-Floor Screed classic must be protected from stress of any kind (e.g. draft, direct sunlight, extreme temperature fluctuations, moisture, premature traffic, etc.)! If the incompletely cured screed mortar is exposed to moisture, e.g. rain or dew, light discolorations may appear on the surface.

For heating screeds start the heat-up process after the screed has hardened completely after 28 days. The flow temperature is raised by 5 °C per day until the maximum has been reached. After three days on the maximum flow temperature, it is again reduced step by step.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Working time	minutes	approx. 30	
Application conditions	°C	> 5 < 30	
Consumption	kg/m <sup>2</sup> /mm	approx. 2	
Density	g/cm <sup>3</sup>	approx. 2.15	
Water addition	l	approx. 2.3	per 25 kg
Flexural strength	N/mm <sup>2</sup>		
48 h		approx. 4	
7 d		approx. 4.9	
28 d		approx. 6.8	
Compressive strength <sup>1)</sup>	N/mm <sup>2</sup>		
48 h		approx. 25	
7 d		approx. 35	
28 d		45	
Accessible after	hours	approx. 24	
Shrinkage	mm/m	< 0.6	
Layer thickness	mm	≥ 10 ≤ 60	
Tensile strength	N/mm <sup>2</sup>	1.5	B 1.5
Abrasion resistance per Böhme test	cm <sup>3</sup> /50 cm <sup>2</sup>	< 15	A 15
Resistant to de-icing salts		no	

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

1) low temperatures delay, higher temperatures accelerate the curing process

Form	pulverous
Fire classification	ovg. fraction < 1%
Colour	grey
Resistance to thermal cycling	yes
Resistance to freeze/thaw cycling	yes
Delivery form	25 kg sack (pallet: 40 x 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.

### 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. [2300018637]