

MC-Floor Screed classic

Cement based screed mortar.

PRODUCT PROPERTIES:

- Ready to use - simply mix with water.
- 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.
- Create a separating screed layer and a mixed mortar for indoor and outdoor areas.

APPLICATION NOTES:

- 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 3 - 3.5 litres of fresh water are filled into a clean container. Remember that, as with any cementitious product, the water requirement may vary.
 - **MC-Floor Screed classic** is added bit by bit under continuous stirring. Use slow-speed stirrer 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.
 - Stir the mixture for about 2-3 minutes until a homogeneous mixture is achieved.
 - 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. It 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 3 days on the maximum flow temperature, it is again reduced step by step.

TECHNICAL DATA:

Characteristic	Unit	Value*	Comments
Working time	minutes	approx. 30	
Application conditions	°C	> 5 < 30	
Consumption	kg/m ² /mm	approx. 2	
Density	g/cm ³	approx. 2.15	
Water addition	liters	3 - 3.5	per bag 25 kg
Flexural strength:			
• 48 hours	N/mm ²	approx. 4	
• 7 days		approx. 4.9	
• 28 days		approx. 6.8	
Compressive strength:			
• 48 hours	N/mm ²	approx. 25	low temperatures delay, higher temperatures accelerate the curing process
• 7 days		approx. 35	
• 28 days		45	
Accessible after	hours	approx. 24	
Shrinkage	mm/m	< 0.6	
Layer thickness	mm	≥ 10 ≤ 60	
Tensile strength	N/mm ²	1.5	B 1.5
Abrasion resistance per Böhme test	cm ³ /50 cm ²	< 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.

PRODUCT CHARACTERISTICS:

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

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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