

MC-Floor Screed BE

Polymer-modified, mineral screed mortar



PRODUCT PROPERTIES

- One-component, low shrinkage
- Can be applied by hand or mechanically with screed pumps
- Easy application, application consistency earth-damp
- Resistant to frost-thaw, frost-thaw salts and temperature changes
- Certified according to EN 13813 as cement screed of class CT/C50
- Registered with DGNB (Code: 3MCI77)

AREAS OF APPLICATION

- Repair and manufacture of compound screeds, e.g. on balconies
- Repair and manufacture of screeds on a partition layer, minimum layer thickness 40 mm
- Manufacture of adjustment levels on mineral floor coatings on interior and exterior areas
- Manufacture of coverings
- Application only on horizontal surfaces

APPLICATION ADVICE

Substrate Preparation

Compound Screed: See leaflet "General Application Advice for Coarse Mortars / Concrete Replacement Systems".

Screed on Intermediate Layer: The substrate must be even and load-bearing to guarantee a uniform application of the mortar layers. A bonding coat is not necessary.

Bond Coat: If applied as compound screed, Nafufill BC is to be used. For more information on the application see leaflet "General Application Advice for Coarse Mortars / Concrete Replacement Systems".

Mixing: MC-Floor Screed BE is added to the water under constant stirring and mixed until a homogeneous, lumpfree and workable mortar is achieved. Forced mixers or slowly rotating double mixers should be used for mixing. Mixing by hand or preparation of partial quantities is not allowed. Mixing takes at least 2 minutes.

Mixing Ratio: See the "Technical Data" table. For a 25 kg pack of MC-Floor Screed BE a approximately 2.25 to 2.40 liter of water are needed. As with other cementitious products the quantity of added water may vary.

Application: MC-Floor Screed BE can be applied in one layer by hand or with standard screed-pumps according to the regulations of screed-laying technology.

Edging Strips: Suitable edging strips (e.g. made of polystyrene) must be put down on walls, other vertical structural parts, door elements, pipelines etc. before the application of MC-Floor Screed BE. They must touch the complete surface and be at least 5 mm thick.

Screed Joints: Existing building joints should generally be transferred to the screed coat. Also, in the case of areas > 40 m² and/or side lengths > 8 m, individual screed areas must be laid down, which are divided by moving joints.

General Information: If a subsequent coating with liquid polymers is planned the MC-Floor Screed BE areas must be blasted beforehand. Please see „Technical Data“ table for waiting times until overcoating.

Curing: MC-Floor Screed BE must be protected against direct sunlight and wind to prevent it from drying out too rapidly.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	100 : 9 - 9.6	powder component : water
Working time	minutes	60	at 5° C
		45	at 20 °C
		30	at 30 °C
Application conditions	°C	≥ 5 ≤ 30	Temperatura del aire, soporte y material
Consumption	kg/m ² /mm	2.05	factory-dried mortar
Maximum grain size	mm	3	
Fresh mortar bulk density	kg/dm ³	2.25	
Dry bulk density	kg/dm ³	2	
Flexural strength	N/mm ²		
		48 h	4
		7 d	5.1
		28 d	7.2
Compressive strength	N/mm ²		
		48 h	18
		7 d	35
		28 d	54.4
E-modulus (dynamic)	N/mm ²	35,400	after 28 days
Overcoatable after	hours	24	at 20°C and <85% rel. humidity
		48	at 5°C and 75% rel. humidity
Accessible after	hours	24	
Shrinkage	mm/m	< 0.4	after 28 days
Layer thickness	mm	9	minimum layer thickness per pass/operation
		70	maximum layer thickness per pass/operation
		70	maximum total layer thickness
Resistant to de-icing salts	-	yes	

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

Colour	Cement grey
Delivery form	25 kg bag
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.

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. [2400020890]