

# MC-Floor Screed 25

Special binding agent for the production of hard-wearing screeds



## PRODUCT PROPERTIES

- Fast-setting special cement, low chromate content, chloride-free
- For mixing with screed sand 0 - 8 mm
- Can be smoothed in approx. 4 hours following laying
- Overcoatable with synthetic resin applications after 48 hours

## AREAS OF APPLICATION

- Fast overcoatable concrete replacement as compound screed for levelling repairs
- Compound screed to EN 13813 CT-C50-F7-A9
- Impact resistance DIN EN ISO 6272-1, IR2
- Frost and de-icing salt resistance DIN CEN/TS12390-9
- Screed on separating layer

## APPLICATION ADVICE

**Substrate preparation:** See leaflet entitled "Substrate and Substrate Preparation".

**Bond coat / Primer:** The substrate should be prepared with MC-Floor Screed BS (see leaflet on MC-Floor Screed BS) and overworked fresh-in-fresh with MC-Floor Screed 25. Only apply as much of the bonding slurry as can be overcoated with screed within 30 minutes. Avoid the formation of puddles when applying the bond coat.

**Mixing:** A compulsory mixer or a screed mixer (e.g. Putzmeister mixokret, Brinkmann Estrich-Boy, BMS) will be needed for the mixing process. First add a minimal amount of water, taking into account the moisture content of the aggregate. Add the aggregate (gravelly sand 0 - 8 mm, grading curve A/B 8 to DIN 1045-2) and then the requisite amount of MC-Floor Screed 25. After mixing for 2 to 3 minutes, aim for a damp earth application consistency through the addition of further water. Once the water has been added, continue mixing for at least another minute. Only mix the quantity of mortar that can be laid within the available application time. Higher temperatures reduce the application and hardening times while lower temperatures increase them. At low temperatures, it may be necessary to use warm water. Under no circumstances frozen aggregate should be used.

**Application:** Lay the screed mortar in its damp earth consistency and skim using height gauges, smoothing by hand as you go. Mechanical smoothing using manually guided single disc smoothing machines is possible.

**Curing:** To ensure complete hydration, protect the placed screed from premature drying, particularly when exposed to sunshine and/or significant air movement. Freshly laid areas should be covered with waterproof sheeting during the first 12 hours.

**Coating:** Sealants may be applied once the screed has sufficiently dried ( $\leq 4$  CM %). Prior to application of self-levelling coatings or thick coatings, the sub-strate has to be swept (high-speed shotblasting) or grinded (diamond grinder). Less adhesive layers have to be removed.

**Special advisories:** Quantities, application time, accessibility for pedestrian traffic, and time to full loadability are dependent on the temperature and the project. Chemically and mechanically stressed areas undergo usage-related wear. Regular monitoring and maintenance are recommended.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Working time	minutes	approx. 45	at 20°C and 50% rel. humidity
Application conditions	°C	≥ 5 ≤ 30	
Consumption	kg/m <sup>2</sup>	approx. 4.2	per cm screed thickness
Consumption (aggregate 0-8 mm)		approx. 16.8	per cm screed thickness
Fresh mortar bulk density	kg/dm <sup>3</sup>	approx. 2.2	
Example formulation (DIN EN 13813 CT-C50-F7-A9)	kg	60	MC-Floor Screed 25 (3 bag)
		240	gravel sand 0-8 mm according per EN 13139 (approx. 28 shovels)
	l	24	moisture content of the aggregate (2-5 mass %) must be deducted
Value		0.4	maximum
Flexural strength	N/mm <sup>2</sup>		
72 h		> 5	
28 d		> 7	
Compressive strength	N/mm <sup>2</sup>		
72 h		> 36	
28 d		> 55	
Smoothable after	hours	approx. 4	
Residual moisture	%		
2 d		< 4	
Shrinkage	mm/m	0.11	after 28 days
Layer thickness	mm	≥ 25	
Equipment Cleaning Agent	water		
Colour Shade	grey		
Delivery Form	20 kg sack, pallet: 35 x 20 kg		
Storage	Can be stored in cool and dry conditions for at least 6 months in original unopened packs.		

**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. [2100005541]