

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

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 (≤ 4 CM %). Prior to application of self-levelling coatings or thick coatings, the substrate 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 Data for MC-Floor Screed 25

Characteristic	Unit	Value	Comments
can be smoothed after	hours	approx. 4	powder : water
Ready for coating after	days	2	
Application time	minutes	approx. 45	at 20 °C and 50 % rel. humidity
Water/cement ratio		0.4	maximum
Application temperature	°C	≥ 5; ≤ 30	
Bulk density of wet mortar	g/cm ³	approx. 2.2	
Consumption of MC-Floor Screed 25	kg/m ²	approx. 4.2	per cm screed thickness
Consumption of aggregate 0 - 8 mm	kg/m ²	approx. 16.8	per cm screed thickness
Shrinking	mm/m	0.11	after 28 days
Compressive strength	N/mm ² N/mm ²	approx. 36 approx. 55	after 3 day after 28 days
Flexible strength	N/mm ² N/mm ²	approx. 5 approx. 7	after 3 day after 28 days
Formulation example* DIN EN 13813 CT-C40-F6	kg kg l	60 240 24	MC-Floor Screed 25 (3 bags) Gravelly sand 0/8 mm to EN 13139 (approx. 28 shovel-fulls) Moisture content of the aggregate (2 - 5 M %) must be deducted

*The formulation example relates to a 200-litre screed mixer. We recommend that preliminary trials be carried out with the aggregate to be used in accordance with EN 13813.

Product Characteristics for MC-Floor Screed 25

Cleaning agent	Water
Standard colour	Grey
Delivery	20 kg bag, pallet 35 x 20 kg
Storage	Shelf life approx. 6 months subject to dry storage in original, sealed containers
Disposal	Packs must be emptied completely.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and the safety information sheets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 05/19. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.