

# MC-Floor Screed 10

Fast-hardening, high-strength industrial floor covering



## PRODUCT PROPERTIES

- Single-component, easy-flowing, polymer-modified cement screed
- Minimum layer thickness 10 mm
- Pumpable, overcoatable after 24 hours
- Hardens virtually free of shrinkage and stress

## AREAS OF APPLICATION

- Ideal for the creation of level floors on minerally bound substrates
- Compound screed for the repair of production facilities, storage and logistics areas, wheeled -vehicle guideways and carriageways, etc.

## APPLICATION ADVICE

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

**Bond coat / Primer:** The substrate is primed with MC-DUR 1177 WV-A (coverage approx. 200 - 400 g/m<sup>2</sup>). The fresh primer is slightly strewn (< 1 kg/m<sup>2</sup>) with oven-dried quartz sand (0,2 - 0,6 mm). After reaching of walkability (the milky effect must have faded), at the latest after 24 hours (at 20 °C), follows the second priming with MC-DUR 1177 WV-A (coverage approx. 200 - 400 g/m<sup>2</sup>) and a fresh in fresh application MC-Floor Screed 10.

**Mixing:** MC-Floor Screed 10 consists of a powder compo-nent to which 14 % water is added. Mix (approx. 3 minutes) until a homogeneous paste is created. Low-speed (approx. 300 - 400 rpm) mechanical stirring devices should be used for the mixing process.

**Laying:** MC-Floor Screed 10 is poured onto the freshly primed substrate. The easy-flowing cement screed can be slightly equalised using an agitation rod or spike roller. The screed should be protected from rain and direct sunshine for the first 24 hours. MC-Floor Screed 10 is suitable for layer thicknesses between 10 and 50 mm. MC-Floor Screed 10 is resistant to foot traffic after 2 - 3 hours and can be overcoated after 24 hours with the MC-DUR range of coating systems. Therefore the MC-Floor Screed 10 needs to be shot-blasted to remove loose particles from the surface. The area has to be cleaned afterwards. We also provide MC-DUR TopSpeed for overcoating the "weekend site". In this case, the area has to be grinded and cleaned thoroughly.

**Special advisories:** Quantities, application time, accessibility for pedestrian traffic, and time to full loadability are dependent on the temperature and the project.

Chemical attack and the effects of light can give rise to colour changes, although these will generally not affect the in-service suitability of the floor. Chemically and mechanically stressed areas undergo usage-related wear. Regular monitoring and maintenance are recommended.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	25 : 3 - 3.5	base component : water
Working time	minutes	30	at 20° C and 50 % rel. humidity
Application conditions	°C	≥ 5 ≤ 30	Temperatura del aire, soporte y material
Consumption	kg/m <sup>2</sup>	1.9	per mm layer thickness
Maximum grain size	mm	3	
Density	g/cm <sup>3</sup>	approx. 1.9	
Fresh mortar bulk density	g/cm <sup>3</sup>	approx. 2.2	
Dry bulk density	g/cm <sup>3</sup>	approx. 2.1	
Mixing time	minutes	approx. 3	
Flexural strength	N/mm <sup>2</sup>		
24 h		> 4	
28 d		> 12	
Compressive strength	N/mm <sup>2</sup>		
24 h		> 20	
7 d		> 35	
28 d		> 50	
Resilient after (full)	days	28	at 20° C and 50 % rel. humidity
Accessible after	hours	2	at 20° C and 50 % rel. humidity
Trafficable after	hours	24	
Shrinkage	mm/m	0.1	after 28 days
Layer thickness	mm	≥ 10 ≤ 50	

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

Equipment cleaning agent	water
Colour	grey
Delivery form	25 kg sack, pallet: 40 x 25 kg
Storage	Can be stored in cool (below 20°C) and dry conditions for 12 months in original unopened packs. Protect from frost.

### 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. [2400020562]