

MC-Floor Screed 10

Fast-hardening, high-strength industrial floor coating

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

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/m²). The fresh primer is slightly strewn (< 1 kg/m²) 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/m²) and a fresh in fresh application MC-Floor Screed 10.

Mixing

MC-Floor Screed 10 consists of a powder component 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-Floor 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 Data for MC-Floor Screed 10

Characteristic	Unit	Value	Comments
Mixing ratio	mass %	100 : 14	powder : water
Largest grain size	mm	3	-
Mixing time	minutes	approx. 3.0	-
Density	g/cm ³	approx. 1.9	-
Bulk density of wet mortar	g/cm ³	approx. 2.2	-
Bulk density of dry mortar	g/cm ³	approx. 2.1	-
Application time	minutes	approx. 30	at 20 °C and 50 % rel. humidity
Resistant to foot traffic after	hours	approx. 2	at 20 °C and 50 % rel. humidity
Resistant to wheeled traffic after	hours	24	at 20 °C and 50 % rel. humidity
Time until full resistance	days	28	at 20 °C and 50 % rel. humidity
Application conditions	°C % K	≤ 10; ≥ 30 ≥ 85 3	air/material/substrate temperature relative humidity above dew point
Consumption	kg/m ²	approx. 1.9	per mm layer thickness
Shrinking	mm/m	0.1	after 28 days
Compressive strength	N/mm ² N/mm ² N/mm ²	> 20 > 35 > 50	after 1 day after 7 days after 28 days
Flexible strength	N/mm ² N/mm ²	> 4 > 10	after 1 day after 28 days
Residual humidity < 6 % after days		1	at 20°C and 50% rel. humidity

Product Characteristics for MC-Floor Screed 10

Cleaning agent	Water
Standard colour	Grey
Delivery	25 kg bag
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost!
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.