

Powerscreed 980

setting accelerator with high water reduction for early overworking of cement screeds



PRODUCT PROPERTIES

- Strength increasing
- Fast setting
- High water reduction
- Reduction of drying time to 7 - 14 days
- Improves the workability
- Liquid
- Registered with DGNB (Code: FXFFHR)

AREAS OF APPLICATION

- Screeds up to DIN EN 13813-CT-C30-F7
- Heated screeds
- Early covering and overworking of cement screeds with good mechanical properties for indoor areas

APPLICATION ADVICE

To reach the best dosage the setting accelerator should be added to the mixing water. The recommended water reduction should be respected. Consider the humidity of the aggregates.

Screed drying process

The drying process is influenced by the thickness of the screed layer and the ambient moisture. Not completely dried walls and floors, high air humidity and dew point changes, lack of soil hydro insulation, plaster and paint works could negatively influence the drying process. Completely dried screeds absorb the water from environmental humidity again. This absorbed humidity extends or avoids reaching the desired residual moisture.

To avoid absorbance of humidity, the use of an admixture for minimizing rising damp (e.g. Easyscreed RS) is recommended.

To support the drying process a sufficient supply of fresh air, e.g. by opening a window, is recommended. Furthermore, draughts have to be avoided. Covering the screed surface (with foils, planks, etc.) extends the drying time.

Application

Powerscreed 980 usually has no remarkable influence on the screed's pot life. The effectiveness of this admixture depends on the origin and composition of the aggregates, as well as on the type of cement. The optimal dosage is defined by preliminary testing with the specific aggregates and cements. The technical properties and workability of the screed mortar can be determined during the preliminary tests. When changing the screed recipe with Powerscreed 980, the properties of the screed mortar should be studied again.

Dosage

To achieve ideal properties of the screed a dosage of 0.35 - 0.45 l per 50 kg cement is recommended. In this case the residual moisture of 2 % is achieved after 14 days. If a fast drying is required the dosage has to be increased to 0.5 - 0.6 l per 50 kg cement. The residual moisture of 2 % is achieved after 7 days.

Heating screeds

For heated screeds the existing floor heating has to be heated before and during screed application up to approx. 20 °C. The functional heating can be then started after 3 - 4 days. The flow temperature should be increased max. 5 °C per day. After keeping the maximum temperature for one day, the temperature has to be reduced with 10 °C steps until the starting temperature is reached again (see heating protocol).

Further Information

Please refer the data sheet „General Application Advice for Powerscreed“ and to the safety data sheet!

The following recipe examples and associated technical values given apply to 200 l mortar mixtures for earth-moist, non-flowing cement screeds according to DIN 18560.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	1.04	
Application conditions	°C	≥ 5 ≤ 30	
Example formulation (DIN EN 13813-CT-C25-F4)	kg	50	cement (CEM II 32,5 A-LL)
		300	Screed sand 0/8 (B8 to DIN 1045-2)
	l	approx. 20	Added water, when the water content of the sand is about 3 per cent
	ml	approx. 250	Powerscreed 980
Working time	minutes	approx. 45	at 20°C
Resilient after	hours	72	
Resilient after (full)	days	7	
Ready for overlaying after (< 2 CM%)	days	< 28	according to DIN 18560-1, Punkt 5.6

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

Colour Shade	light brown
Form	liquid
Delivery Form	30 kg canister(s)
Storage	Can be stored in cool and dry conditions for at least 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.

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. [2200005889]

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	1.04	
Application conditions	°C	≥ 5 ≤ 30	
Example formulation (DIN EN 13813-CT-C30-F5)	kg	50	cement (CEM II 32,5 A-LL)
		300	Screed sand 0/8 (B8 to DIN 1045-2)
	l ml	approx. 16 approx. 500	Added water, when the water content of the sand is about 3 per cent Powerscreed 980
Working time	minutes	approx. 45	at 20°C
Resilient after	hours	48	
Resilient after (full)	days	7	
Ready for overlaying after (< 2 CM%)	days	< 14	

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

Colour Shade	light brown
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