

# Emcefix floor

High-strength fine filler for the cosmetic repair and restoration of horizontal and vertical concrete surfaces.



## PRODUCT PROPERTIES

- Cement-bound
- Ready to use – simply mix with water
- Simple, smooth application
- Sets stress-free and crack-free
- Suitable as a direct wear layer
- High wear resistance
- Trafficable by forklift and pallet truck
- Resistant to freeze-thaw cycling and de-icing salts to DIN CEN TS 12390-9
- Certified and graded Class R3 according to EN 1504 Part 3 for Principles 3 and 7, Procedures 3.1, 3.3, 7.1 and 7.2
- Suitable for interior and exterior applications

## AREAS OF APPLICATION

- For small and large area repair filling of concrete floors and walls
- Suitable for repairing steps and plinths
- For the preparation of gradient compensation layers
- For levelling floor and wall surfaces from 1 to 10 mm differential
- For the repair of spalling, blowholes and voids up to 30 mm

## APPLICATION ADVICE

**Substrate preparation:** The substrate must be clean and free of all loose material, dust, oil and other separating substances. Cement slurries must be completely removed. The grain structure of the substrate must be visible and the substrate must be rough to the touch. The surface tensile strength values of the substrate must comply with relevant technical specifications and standards.

Before applying the fine filler, the substrate will need to be pre-wetted. Highly absorbent substrates will need to be pre-wetted several times. A continuous, closed water film on the substrate and pores and blowholes filled with water are not permissible. After pre-wetting, the substrate must dry again such that a matt damp (semi-dry) surface is present before applying the fine filler. Oversaturation of the concrete substrate with water must be avoided to prevent bubbles from forming in the freshly applied fine filler.

For critical substrates, we recommend using the water-based epoxy resin primer MC-DUR 1177 WV-A. Please get in contact with our Application Engineering department.

**Mixing:** Pour Emcefix floor into clean make-up water and mix with a slow-running paddle for around 2 minutes to create a lump-free consistency suitable for application. After allowing the filler compound to rest for 1 - 2 minutes, repeat the mixing action for at least another 30 seconds.

**Application method:** If applying Emcefix floor manually, you will need a trowel and float. To ensure sufficient keying and adhesion of the filler to the substrate, you must first apply a scratch coat as the initial contact layer. For this purpose, the material must be vigorously drawn off over the grain tips of the raw, keyable substrate, with the steel trowel. Emcefix floor is then applied fresh-in-fresh, within the working time and within 15 minutes at the latest, in the required layer thickness and reprofiled as required. To achieve a fine, even surface, smooth the filler using an "MC-Tool Sponge" or similar sponge rubber float. Changes in colour tone may occur depending on individual technique! The filler must be overworked with a very small amount of water. When reprofiling, ensure that the sponge rubber float is rinsed with clean water after each rub-down. Fully expel any surplus water. In the case of large-area coating jobs, individual application zone sizes will need to be limited so that the area initially coated can be reworked within the working time of the material. Zones should be separated by trowel cuts. Joints from the substrate should always remain apparent. In all work, ensure compliance with the latest state of the art.

**Curing:** At high temperatures, in direct sunlight or in the presence of drafts, the surface of Emcefix floor must be protected from drying out too quickly after installation through appropriate curing measures. When applied outdoors, protect the filled/coated areas from rain for the first three days.

**Application conditions:** The application time for Emcefix floor will depend on the climatic conditions en-

## APPLICATION ADVICE

countered. Material that has already started to set should not be further stirred or applied. Material in the process of setting must likewise not be subjected to any further rubbing or grinding due to the risk of it cracking. The minimum working temperatures for substrate, air and filler material are + 5 °C. Work should cease if any of these temperatures fall below + 5 °C. Suitable precautions should also be taken to ensure that temperatures do not fall below this point during the setting phase. Avoid applying the material in direct sunlight. The application and working conditions specified in the technical data sheets always refer jointly to the material, the substrate and the air.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Maximum grain size	mm	approx. 0.3	
Accessible after	hours	6	at 20° C and 50 % rel. humidity
Density (mixture with water)	kg/l	2	
Water addition	l	5.5 - 6	per 25 kg
Working time	minutes	approx. 45	
Application conditions	°C	≥ 5 ≤ 30	Temperatura del aire, soporte y material
	%	≤ 85	rel. humidity
Consumption	kg/m <sup>2</sup> /mm	1.5	
Flexural strength	N/mm <sup>2</sup>		EN 13892-2
28 d		> 6	
Compressive strength	N/mm <sup>2</sup>		EN 12190
28 d		> 35	
Tensile strength 28 d	N/mm <sup>2</sup>		EN 1542
		> 2	
Resilient after (full)	days	7	
Layer thickness (range)	mm	1	minimum layer thickness per pass/operation
		10	maximum layer thickness per pass/operation
Layer thickness		30	in the case of edge spalling and holes/voids

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

Colour	Concrete grey, medium grey, dark grey, light grey, other colours on request
Form	pulverous
In-company production control	EN ISO 9001
Equipment cleaning agent	water
Delivery form	25 kg bag; 1 pallet (40 bags @ 25 kg)
Self-monitoring	EN ISO 9001
Storage	Can be stored in original sealed packages at temperatures between 5°C and 20°C in dry conditions for at least 12 months.
Packaging disposal	Make sure single-use containers are completely empty.

### 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. [2400020612]