

# Emcefix Spachtel G ultra

High-strength, fibre-reinforced coarse filler with integrated bonding agent for Concrete Cosmetics



## PRODUCT PROPERTIES

- Polymer modified coarse filler for single layer applications of up to 40 mm
- Corrosion protection and bonding coat integrated
- High absorption to substrate
- Low fresh mortar density, low coverage rates
- Resistant to frost-thaw and temperature changes acc. to EN 13687-3
- Stable for wall- and overhead-applications
- Sprayable with suitable machine (please ask for techn. advice!)
- Registered with DGNB (Code: 5PAKN6)
- Low emissions acc. to AgBB
- Very low emission according to GEV-EMICODE, categorie EC1<sup>PLUS</sup>
- Non-flammable according to EN 13501-class A1
- Certified according to EN 1504-3, class R4 - structural repair

## AREAS OF APPLICATION

- Coarse filler for the repair of defects on concrete and fair-faced concrete, such as gravel pockets, broken edges, formwork attachments, cone holes
- For non-accessible and non-trafficable concrete components in interior and exterior areas
- For coarse fillings, repairs and joint fillings to precast concrete elements
- For small and large scale coarse fillings

## APPLICATION ADVICE

**Substrate Preparation:** Please refer to the leaflet „General Application Advice for Coarse fillers“.

**Mixing:** Emcefix-Spachtel G ultra is poured into the measured water and stirred with a slow-moving agitator until it has a lump-free, workable consistency. Lower temperatures retard and higher temperatures accelerate the hardening process.

**Pre-wetting:** The substrate is wetted so that it is mat-damp yet still absorbent.

**Pre-filling:** First fill the substrate with a thin layer of Emcefix-Spachtel G ultra. Then, the reprofiling process can begin wet-in-wet.

**Application:** Emcefix-Spachtel G ultra must only be used if the substrate and surrounding temperatures are above + 5 °C.

For the application use a trowel or a finishing trowel. Depending on the condition of the substrate, Emcefix-Spachtel G ultra can be applied up to a single layer thickness of max. 40 mm and in double layer thickness of max. 80 mm total.

A spiral pump with adjustable discharge flow is advised for spray application.

**Surface treatment:** Emcefix-Spachtel G ultra have be smoothed after application. Contours of concrete elements / edges can easily be reshaped by cutting the excess filler in semi plastic texture.

In the transitional area between damaged area and concrete the coarse mortar have to provide perfect substrate for further layers (e.g. fine fillings).

**Curing:** Surfaces treated with Emcefix-Spachtel G ultra must be cured quickly to protect them from accelerated water evaporation by sun and wind exposure. Curing usually takes 3 days.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Maximum grain size	mm	2	
Fresh mortar bulk density	kg/dm <sup>3</sup>	1.8	
Water addition	l	4 - 4.25	per 25 kg
Working time	minutes	approx. 30	at 20° C
Application conditions	°C	≥ 5	air, substrate and material temperatures
		≤ 30	air, substrate and material temperatures
Consumption	kg/m <sup>2</sup> /mm	1.52	
Flexural strength <sup>1)</sup>	N/mm <sup>2</sup>		
24 h		approx. 4.1	
7 d		approx. 6.1	
28 d		approx. 6.8	
Compressive strength <sup>1)</sup>	N/mm <sup>2</sup>		
24 h		approx. 25	
7 d		approx. 40	
28 d		approx. 47	
E-modulus (static)	N/mm <sup>2</sup>	24,332	EN 13412
Tensile strength	N/mm <sup>2</sup>	≥ 2	EN 1504-3
Resistance to carbonation	mm	15	EN 13295
Layer thickness	mm	6	minimum layer thickness per pass/operation
		40	maximum layer thickness per pass/operation
		80	maximum total layer thickness
		100	as a reprofiling mortar

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

1) Prism 40 x 40 x 160 mm (water storage)

Colour	Cement grey, see colour chart or sample
Form	pulverous
System products	Emcefix-Spachtel F, Emcefix-Spachtel F extra fein
Resistance to thermal cycling	yes
Application equipment	trowel, float, MC-Tool Rubber, MC-Tool Sponge
In-company production control	EN ISO 9001
Equipment cleaning agent	water
Delivery form	25 kg bag, 40 bags = 1 pallet
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
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. [2300018589]