



## Technical Data Sheet Art. No. 1008

# Betofix Filler

PCC fine filler for structural repair of concrete structures  
Single component, polymer modified finer filler (PCC system) with hydraulic binders, mineral aggregates and special additives



For use indoors and outdoors



Dry mortar / water



Mixing time



Working temperature



Mortar cover / filling knife / trowel application



Total application rate per mm thick layer



Shelf-life



Protect from moisture!

### Range of use

- Scratch coat and levelling filler for use indoors and outdoors
- Partial and full surface levelling of concrete surfaces
- Coating prefab elements, masonry work and mineral surfaces
- Repairing holes, cracks, pores, missing and broken out areas
- Can be used indoors and outdoors, in wet and under water areas
- Certified pursuant to DIN EN 1504-3 for loading class R3.
- Tested and approved for loading class M1 pursuant to ZTV-ING, TL/TP PCC and Rili-SIB.
- BAST listed in the Betofix PCC Concrete Repair System.

When combined with Remmers Concrete Acrylic (Art. No. 6500) or Elastoflex Facade Paint (Art. No. 2976) it fulfils the requirements set out in DIN V 18026 and DIN EN 1504-2 as a surface protection system in class OS 4 (OS C) and OS 5A (OS DII).

### Characteristic data of the product

|                                       |  |
|---------------------------------------|--|
| Colour:                               | grey   |
| Grain:                                | 0 – 0.5 mm   |
| Water requirements:                   | approx. 15 %   |
| Working time:                         | approx. 60 min   |
| External surveillance:                | QDB + KIWA   |
| Compressive strength (EN 12190):      | after 1 day: $\geq 10 \text{ N/mm}^2$<br>after 7 days: $\geq 25 \text{ N/mm}^2$<br>after 28 days: $\geq 30 \text{ N/mm}^2$ |
| Flexural tensile strength (EN 12190): | after 28 days: $\geq 7.0 \text{ N/mm}^2$   |
| Dynamic E-modulus:                    | $\geq 15000 \text{ N/mm}^2$  |
| Adhesion capacity (EN 1542):          | $\geq 1.5 \text{ N/mm}^2$  |
| Capillary water absorption:           | $\leq 0.5 \text{ kg/(m}^2 \cdot \text{h}^{0.5})$   |
| Reaction to fire (EN 1504-3):         | Class A1   |

Exposure class assignment according to EN 206-1/DIN 1045-2:

|   | XC1 | XC2 | XC3 | XC4 |
|---|-----|-----|-----|-----|
| Carbonation                             | XC1 | XC2 | XC3 | XC4 |
| Chlorides without sea water             | XD1 |     |     |     |
| Chlorides from sea water                | XS1 |     |     |     |
| Frost attack with/without de-icing salt | XF1 | XF2 | XF3 |     |
| Chemical attack                         | XA1 |     |     |     |
| Wear load                               | XM1 |     |     |     |

### Property profile

Remmers Betofix Filler is a factory-mixed, mineral, dry mortar that is ready to use after mixing with water. The very smooth material hardens

with little shrinkage and crack-free. Polymer additives improve adhesion of the mortar, making it especially suitable for vertical and over-head work. The hardened mortar is resis-

tant to water, weather, frost and frost/de-icing salt.

### Substrate

At the time of application the substrate must be matt damp, sound and load-bearing. Remove loose material that could interfere with adhesion and cement grout e.g. by blasting.

The substrate must also be sufficiently rough.

The pull-off strength of the substrate must correspond to the relevant technical rules. The pre-wet substrate should be still slightly absorbent.

### Directions

Pour **approx. 3.8 l of water** into a clean container (mortar tub), then add **25 kg Betofix Filler**. Mix thoroughly with a mixer/positive mixer for approx. 2 minutes until homogeneous and until the proper consistence for working has been achieved. If necessary, a little more water may be added.

**Mixing by hand as well as the preparation of partial amounts is not permissible.**

To achieve the best possible adhesion between the concrete and filler, a scratch coat should be applied to the matt damp substrate first.

The filler can be applied in a single layer from 1 - 6 mm thick and in broken out areas up to 10 mm.

### Notes

Initially set mortar cannot be made workable again by adding water or fresh mortar. Do not use if the tem-

perature of the air, substrate and building material is below +5 °C or above +30 °C.

The characteristic data given for this product were determined under laboratory conditions at 23 °C and 50 % relative humidity.

Low temperatures lengthen, high temperatures reduce working and setting time.

Protect the fresh mortar surface for at least 4 days from weather influences such as sun, wind, rain, drafts and frost to and from too fast dehydration.

May contain traces of pyrite (iron sulphide).

Low in chromates in accordance with Directive 2003/53/CE

### Possible system products

- Betofix KHB (1087)
- Betofix R4 (1096)
- Betonacryl (6500)
- Elastoflex Facade Paint (2976-2978)

### Tools, cleaning

Mixing tool, trowel, filling knife, smoothing float  
Clean tools with water before the mortar sets.

### Packaging, application rate, shelf-life

**Packaging:**  
5 kg and 25 kg paper bags

**Application rate-dry mortar:**  
Approx. 1.75 kg/m<sup>2</sup>/mm layer or approx. 1.75 kg/dm<sup>3</sup>

**Shelf-life:**  
At least 9 months stored dry in closed containers

### Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.

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|--|--|
| <b>CE</b><br>0921  |  |
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| <b>13</b><br><b>GBI P5-1</b><br><b>EN 1504–3: 2005</b><br><b>Betofix Filler</b><br>PCC mortar for structural repair for concrete |  |
| Compressive strength:  | class R3                                     |
| Chloride ion content:  | ≤ 0.05 %                                     |
| Adhesive bond:   | ≥ 1.5 MPa                                    |
| Restrained shrinkage/<br>expansion:  | ≥ 1.5 MPa                                    |
| Carbonation resistance:  | passed                                       |
| Elastic modulus:   | ≥ 15 GPa                                     |
| Thermal compatibility:   | ≥ 1.5 MPa                                    |
| Skid Resistance:   | NPD  |
| Capillary absorption:  | ≤ 0.5 kg/(m <sup>2</sup> *h <sup>0.5</sup> ) |
| Reaction to fire:  | class A1                                     |

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

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