



## Betofix Fill

### - Betofix Filler -

PCC fine filler

Type/Name	Availability
	Quantity per pallet 42
	<b>Size / Quantity</b> <b>25 kg</b>
	Type of container PE bag
	Container code 25
	<b>Art. no.</b>
concrete grey	1008 ■

#### Application rate

Approx. 1.75 kg/m<sup>2</sup>/mm layer thickness, or approx. 1.75 kg/dm<sup>3</sup>



#### Range of use



- Concrete replacement according to
  - DIN EN 1504-3
  - Rili-SIB DAfStb 2001
- Interior and exterior use
- Evening out concrete surfaces
- Repair of pores, missing and broken out areas
- System component OS 4 (OS C) / OS 5a (OS DII)
- System component PCC/M3 system

#### Property profile

- High early strength
- Good smoothing and adhesion properties
- Low-stress and crack-free setting
- Well suited to overhead working
- Freeze/thaw-resistant

#### Planning information

Betofix Fill - Classification					
acc. to Rili-Sib 2001	M1				
acc. to DIN EN 1504-3	R3				
Old concrete classes	A2	A3			
Reaction to fire class	A1				
Impacts from the environment					
Carbonation	XC1	XC2	XC3	XC4	
Chlorides excluding seawater	XD1				
Chlorides from seawater	XS1				
Frost attack with/without de-icing agent	XF1	XF2	XF3		
Chemical attack	XA1				
Wear stress	XM1				
Application					
Repair principles/procedures	3.1	3.3	4.4	7.1	7.2

#### Characteristic data of the product



Water requirement	Approx. 14%, equivalent to 0.85 l/6 kg and 3.5 l/25 kg
Capillary water uptake	$\leq 0.5 \text{ kg}/(\text{m}^2\text{h}^{0.5})$
Flexural strength	28 d: $\geq 7.0 \text{ N/mm}^2$
Compressive strength	1 d: $\geq 10 \text{ N/mm}^2$ 7 d: $\geq 25 \text{ N/mm}^2$ 28 d: $\geq 30 \text{ N/mm}^2$
Dynamic E-modulus	$\geq 15000 \text{ N/mm}^2$
Surface tensile strength	$\geq 1.5 \text{ N/mm}^2$
Maximum grain size	0.5 mm
External surveillance	QDB and KIWA

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

## Additional information

➤ [Sustainability data sheet](#)

## Possible system products

- [Betofix R4 \(1096\)](#)
- [Betofix R4 SR \(1084\)](#)
- [Betofix KHB \(1087\)](#)
- [Betofix R3 SR \(1107\)](#)
- [Color PA \(6500\)](#)
- [Color Flex \(2976\)](#)

## Preparation

### ■ Substrate preparation

#### Concrete substrate:

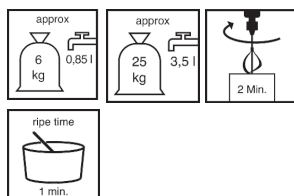
Stable, clean, dust-free, absorbent

Observe the applicable technical regulations for the following parameters:

- Adhesive pull strength of the substrate
- Minimum roughness/roughness depth

Pre-wet the substrate so that it is slightly moist.

## Production of the mixture



### ■ Mixing

Prepare water, add dry mortar and mix until homogeneous.

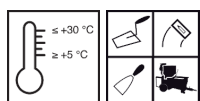
Mix in small partial quantities.

**Mixing time:** approx. 2 minutes

**Maturing time:** approx. 1 minute.

**Final mixing time:** approx. 1 minute

## Directions



### ■ Conditions for use

Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.

Low temperatures increase, while high temperatures decrease the working and setting time.

Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar.

#### Working time

(+20 °C): Approx. 60 minutes

#### Layer thickness

Single layer: 1 - 6 mm

In broken-out areas: up to 10 mm

Apply product in the desired coating thickness.

Smooth the surface using a suitable tool.

Finish the surface once set.

#### Subsequent processing

Protect fresh mortar surfaces from wind, direct sunlight, rain and/or frost for at least 3 days so that they do not dry too quickly.

#### Machine working

Please contact Remmers Technical Service (phone +49 5432 83900) before applying with machine processing.

## Application examples

- Remmers OS-C / OS 4 System (Betofix Fill + Color PA)



- Remmers OS-DII / OS 5A System (Betofix Fill + Color Flex)

**Notes** The substrate must have an average pull-off strength of at least 1.5 N/mm<sup>2</sup>

**Tools / Cleaning**



Mixing tool, notched trowel, trowel, smoothing trowel, plasterer's float, sponge float  
Clean tools with water while the material is still fresh.

**Remmers tools**

- > **Mischgefäß (4030)**
- > **Collomix Rührer DLX 152 HF (4286)**
- > **Collomix® Stirrer KR (4292)**
- > **Smoothing Trowel (4004)**
- > **Glättkelle (4117)**
- > **Smoothing Trowel Duo (4118)**
- > **Schwambrett gelb (4936)**

**Storage / Shelf life**



If stored in an unopened container and in a dry place, the product will keep for approx. 12 months.

**Safety data / Regulations**

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

**Disposal**

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

**Declaration of performance**

> **Declaration of performance**

**Declaration of conformity**



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**GBI-P 5-4**

EN 1504-3: 2005

**1008**

PCC mortar for structural and non structural repair for concrete

Compressive strength class:	R3
Chloride ion content:	≤ 0.05 %
Adhesive bond:	≥ 1.5 MPa
Restrained shrinkage/expansion:	≥ 1.5 MPa
Carbonation resistance:	Passed
Elastic modulus:	≥ 15 GPa
Thermal compatibility part 1 and 4:	≥ 1.5 MPa
Capillary absorption:	≤ 0.5 kg/(m <sup>2</sup> h <sup>0.5</sup> )
Reaction to fire class:	A1
Dangerous substances:	NPD

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.