



Betofix Fill

- Betofix Filler -
PCC fine filler

Colour	Availability		
	Quantity per pallet	130	42
	Size / Quantity	6 kg	25 kg
	Type of container	PE bag	PE bag
	Container code	06	25
	Art. no.		
concrete grey	1008	■	■

Application rate Approx. 1.75 kg/m²/mm layer thickness, or approx. 1.75 kg/dm³



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	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: $\geq 7.0 \text{ N}/\text{mm}^2$
Compressive strength	1 d: $\geq 10 \text{ N}/\text{mm}^2$ 7 d: $\geq 25 \text{ N}/\text{mm}^2$ 28 d: $\geq 30 \text{ N}/\text{mm}^2$
Dynamic E-modulus	$\geq 15000 \text{ N}/\text{mm}^2$
Surface tensile strength	$\geq 1.5 \text{ N}/\text{mm}^2$
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.

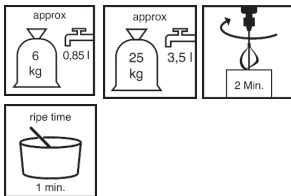
Possible system products

- Betofix R4 (1096)
- Betofix R4 SR (1084)
- Betofix KHB (1087)
- Color PA (6500)
- Color Flex (2976)

Preparation

- Substrate preparation
Concrete surface:
Stable, clean, dust-free
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.

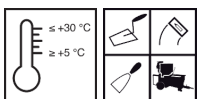
Production of the mixture



- 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/mm²



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)
- Schwammbrett 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 5-3

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 ² h ^{0.5})
Reaction to fire:	Class A1

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.