



## Betofix HQ3

Swellable, high-strength grout



Type/Name	Availability	
	Quantity per pallet	36
	<b>Size / Quantity</b>	<b>25 kg</b>
	Type of container	Paper bag
	Container code	25
	<b>Art. no.</b>	
grey	1064	■

### Application rate

Approx. 2.1 kg/dm<sup>3</sup>

Apply to a large enough trial area to determine the precise amount required.



### Range of use



- Interior and exterior use
- Mineral substrates in dry, damp, wet and underwater areas
- Casting and underfilling of machines, steel constructions, train tracks, wind turbines and bridge bearings
- Filling joints between precast units, pre-fab elements and basement slabs
- Embedding supports in concrete in sleeve foundations
- Small-scale concrete repairs
- For filling large cavities in concrete elements in accordance with the third amendment to the guidelines on the protection and repair of concrete structures (Rili-SIB)

### Property profile

- High early and final strength
- Swelling capable
- Water impermeable
- Corrosion-inhibiting
- Maximum grain size: 3 mm
- Compressive strength after 28 days:  $\geq 105 \text{ N/mm}^2$
- Freeze/thaw-resistant
- Good flow properties
- Reaction to fire: class A1

### Characteristic data of the product



Degree of swelling (24 h)	≥ 0.5% by volume
Layer thickness	15 - 150 mm
Slump class	f <sub>3</sub>
Shrinkage class	SKVM I
Early strength class	A (at 20°C) C (at 5°C)
Compressive strength class	C 70/85
Water requirement	Approx. 9.6%, equivalent to 2.4 l/25 kg
Exposure class assignment	as per EN 206-1/DIN 1045-2: XC1 – XC4, XD1 – XD3, XO XS1 – XS3, XF1 – XF4* XA1 – XA2, XM1* – XM2* *The exposure classes XM1, XM2 and XF4 are excluded from the VeBMR guidelines.
Reaction to fire	Class A1 (DIN EN 13501)
Compressive strength	24 h: > 50 N/mm <sup>2</sup> 7 days: > 85 N/mm <sup>2</sup> 28 days: > 95 N/mm <sup>2</sup> 90 days: > 110 N/mm <sup>2</sup>
Maximum grain size	3 mm
Moisture class assignment	WO, WF, WA
Slump	After 5 min: ≥ 750 mm after 30 min: ≥ 700 mm after 60 min: ≥ 650 mm after 90 min: ≥ 650 mm (* Flow time for the slump calculation = 150 seconds)
Bulk density of fresh mortar	Approx. 2.3 kg/dm <sup>3</sup>
Consistency of the mixture	Approx. 25 cm (slump)

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

**Certificates**

➤ [Certificate of compliance Reg. No. ZERT 12 III 16/813, QDB](#)

**Possible system products**

➤ [Remmers release agents](#)

**Preparation**

■ **Substrate requirements**

Clean, dust-free and capable of supporting a load.

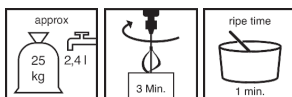
■ **Substrate preparation**

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

Expose the grains close to the surface.

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

**Production of the mixture**



■ **Mixing**

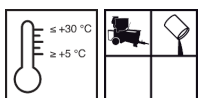
Pour water into a clean container and add dry mortar.

Mix thoroughly for approximately 3 minutes until the proper consistency for working has been achieved.

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

Then mix again for at least 1 minute until the proper consistency for working has been achieved.

**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.

■ **Working time (+20 °C)**

Approx. 90 minutes

Construct formwork if necessary.

Pour continuously from one side or corner.

Re-compact if necessary.

**Tips on use**

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

Protect wet mortar surfaces against frost, rain and drying out too quickly for at least 4 days.



**Notes**

The mixing water must be of drinking water quality.  
 Low chromate content in accordance with Directive 2003/53/EC.  
 The characteristic data given for the product was determined under laboratory conditions in accordance with DAfStb Guideline - VeBMR.  
 Alkaline binders may cause a dissolution process on non-ferrous metals.

**Tools / Cleaning**



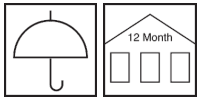
Mixer: double-shaft mixer, compulsory mixer  
 If using a mixing pump, use a batch mixer.  
 Clean tools with water while the material is still fresh.

**Remmers tools**

- > **Mischgefäß (4030)**
- > **Smoothing Trowel (4004)**
- > **Glättkelle (4117)**
- > **Smoothing Trowel Duo (4118)**

**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 58**

EN 1504-6: 2006

**1064**

Anchoring product

Pull out strength displacement:	≤ 0.6 mm
Chloride ion content:	≤ 0.05 %
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.