



Betofix HQ6

High-strength, swellable infill concrete



Type/Name	Availability	
	Quantity per pallet	36
	Size / Quantity	25 kg
	Type of container	Paper bag
	Container code	25
	Art. no.	
grey	0556	■

Application rate

Approx. 2.1 kg/dm³



Range of 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
- Concrete repairs according to the 3rd amendment to the SIB Guideline
- 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)
- Complies with DAfStb Guideline: "Production and Use of Cement-Bound Poured Concrete and Poured Mortar"
- Interior and exterior use

Property profile

- Good flow properties
- Self-compacting
- Swelling capable
- Water impermeable
- High sulphate resistance and low active alkali content (SR/NA)
- Maximum grain size: 6 mm
- Reaction to fire class A1
- Compressive strength after 56 days: $\geq 60 \text{ N/mm}^2$
- Freeze/thaw-resistant
- Corrosion-inhibiting

Planning information

Betofix HQ6 - classification				
Reaction to fire class	A1			
Effects arising from the environment				
Carbonation	XC1	XC2	XC3	XC4
Chlorides excluding seawater	XD1	XD2	XD3	
Chlorides from seawater	XS1	XS2	XS3	
Freeze-thaw attack with/without de-icing agent	XF1	XF2	XF3	XF4*
Chemical attack	XA1	XA2		
Abrasion	XM1*	XM2*		
Humidity class	WO	WF	WA	

*Exposure classes XM1, XM2 and XF4 are excluded from the VeBMR guideline.



Characteristic data of the product

Water requirement	9.6%, equivalent to approx. 2.4 l / 25 kg
Degree of swelling (24 h)	≥ 0.5% by volume
Slump class	a3
Shrinkage class	SKVB 0
Early strength class	C (at 20°C)*
Compressive strength class	C 50/60 (after 56 days)
Compressive strength	24 h: 10 – 24 N/mm ² 7 d: > 40 N/mm ² 28 d: > 55 N/mm ² 56 d: ≥ 60 N/mm ² (as per DIN 1045-2: 2023-08 section 5.5.1.2) 90 d: > 65 N/mm ²
Maximum grain size	6 mm
Slump	5 min.: ≥ 700 mm 30 min.: ≥ 650 mm 60 min.: ≥ 650 mm 90 min.: ≥ 600 mm
Bulk density of fresh mortar	Approx. 2.3 kg/dm ³

*At 5°C < C; at 30°C = B

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

Certificates

➤ [Certificate of conformity QDB](#)

Possible system products

➤ [Remmers release agents](#)

Preparation

■ **Substrate preparation**

Concrete surface:

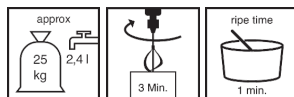
Stable, clean, dust-free

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**

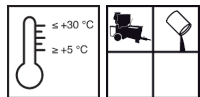
Prepare water, add dry mortar and mix until homogeneous.

Mixing time: approx. 3 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. 90 minutes

Layer thickness

20 - 240 mm

Shutter if necessary.

Pour continuously from one side or corner.

Re-compact if necessary.

Notes

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

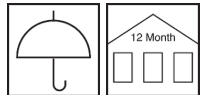


Mixer: double-shaft mixer, compulsory mixer
If using a mixing pump, use a batch mixer.
Clean tools with water while the material is still fresh.

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



0921

Remmers GmbH

Bernhard-Remmers-Str. 13, D – 49624 Lönningen

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GBI-P 57-1

EN 1504-6: 2006

0556

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.