



Betofix HQ3 CP

High-strength, swelling-capable grouting mortar, repair and anode embedding mortar for cathodic corrosion protection

Availability		
Quantity per pallet	36	
Size / Quantity		25 kg
Type of container	PE bag	
Container code	25	
Art. no.		
1055		■

Application rate

Approx. 2.1 kg/dm³

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



Range of use



- Repair and anode bedding mortar for cathodic protection
- 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
- High carbonation resistance
- 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 vol%
Layer thickness	15 - 150 mm
Slump class	f ₁
Shrinkage class	SKVM I
Early strength class	A (at 20 °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* *Exposure classes XM1, XM2 and XF4 are excluded from the VeBMR guideline.
Reaction to fire	Class A1 (DIN EN 13501)
Compressive strength	1 d = > 50 N/mm ² 7 d = > 85 N/mm ² 28 d = > 95 N/mm ² 90 d = > 110 N/mm ²
Maximum grain size	3 mm
Moisture class assignment	W0, Wf, WA
Slump	after 5 min: ≥ 650 mm after 30 min: ≥ 600 mm after 60 min: ≥ 550 mm after 90 min: ≥ 550 mm (*The slump time depends on the determination of the slump at 150 sec.)
Bulk density of fresh mortar	Approx. 2.3 kg/dm ³
Consistency of the mixture	Approx. 20 cm (slump)

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

Possible system products

➤ **Remmers release agents**

Preparation

■ Substrate requirements

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

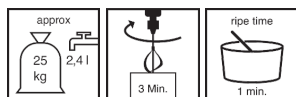
■ Substrate preparation

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/mm²

Production of the mixture



■ Mixing

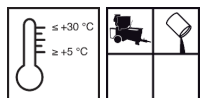
Prepare water, add dry mortar and mix until homogeneous.

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.

Mortar that has already set cannot be made workable again by adding water or fresh mortar.

■ 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

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

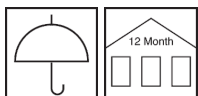
If using a mixing pump, use a batch mixer.

Clean tools with water while the material is still fresh.

Remmers tools

- > **Mischgefäß (4030)**
- > **Smoother Trowel (4004)**
- > **Glättkelle (4117)**
- > **Smoother 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

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22 (CE)

GBI-P 83-2

EN 1504-3: 2006

1055

Anchoring product

Compressive strength:	class R3
Chloride ion content:	≤ 0.05 %
Adhesive bond:	≥ 1.5 MPa
Restrained shrinkage/expansion:	≥ 1.5 MPa
Carbonation resistance:	NPD
Elastic modulus:	≥ 15 GPa
Thermal compatibility:	≥ 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

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