



Betofix EM 8 2K - Classification									
acc. to Rili-Sib 2001	M3								
acc. to DIN EN 1504-3	R4								
Old concrete classes	A2	A3			A4				
Reaction to fire	Class A2fl-s1 (DIN EN 13501-1)								
Impacts from the environment									
Carbonation	XC1	XC2			XC3		XC4		
Chlorides excluding seawater	XD1	XD2			XD3				
Chlorides from seawater	XS1	XS2			XS3				
Frost attack with/without de-icing agent	XF1	XF2			XF3		XF4		
Chemical attack	XA1	XA2*			XA3**				
	* without sulphate attack ** protective measures required for - chemical attack XA3 or higher - high flow rate of water and interaction of chemicals								
Moisture class classification	WO	WF			WA				
Impacts from the concrete substrate									
Backfacing water	XBW1	XBW2							
Freshwater or seawater loads	XW1	XW2							
Static effect	XSTAT								
Application									
Repair principles/procedures	3.1	3.2	4.4	5.3	6.3	7.1	7.2	7.4	10.1

Characteristic data of the product

Shrinkage	7 days: -0.30 mm/m 28 days: -0.48 mm/m 90 days: -0.65 mm/m
Bulk density	Approx. 1.8 kg/dm ³
Capillary water uptake	≤ 0.5 kg/(m ² h ^{0.5})
Flexural strength	1 day: 5 N/mm ² 7 days: 8 N/mm ² 28 days: 9 N/mm ² 90 days: 14 N/mm ²
Compressive strength	1 day: 27 N/mm ² 7 days: 48 N/mm ² 28 days: 55 N/mm ² 90 days: 63 N/mm ²
Dynamic E-modulus	39 x 10 ³ N/mm ² (at 23 °C)
Maximum grain size	8 mm
External surveillance	KIWA
Bulk density of fresh mortar	Approx. 2.3 kg/dm ³
Consistency	Plastic

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

Possible system products

- [Betofix KHB EM \(5779\)](#)
- [Betofix EM LQ \(5780\)](#)

Preparation

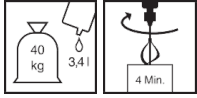
- Substrate requirements
Concrete surface:
 Stable, clean, dust-free
 Observe the applicable technical regulations for the following parameters:
 - Adhesive pull strength of the substrate
 - Minimum roughness/roughness depth
 Pre-wet the substrate so that it is slightly moist.
- Substrate preparation



Reinforcement:

Degree of purity SA 2 1/2 if applying corrosion protection, otherwise SA 2

Production of the mixture



■ **Mixing**

3.4 l Betofix EM LQ (art. 5780) with 40 kg Betofix EM 8 2K

Prepare mixing liquid, add dry mortar and mix until homogeneous.

Mixing time: approx. 4 minutes

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 25 - 100 mm

A bonding layer is required when applying manually.

Apply wet-on-wet.

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.

Tips on use

Protect pretreated reinforcement against corrosion with a double application of Betofix KHB EM.
Use screed rails to ensure that the product is poured to the correct height.

Tools / Cleaning



Mixer, trowel, aluminium rule, finishing trowel, power trowel

Clean tools with water while the material is still fresh.

Remmers tools

- [Mischgefäß \(4030\)](#)
- [Heizkörperpinsel \(4541\)](#)
- [Smoothing Trowel \(4004\)](#)
- [Glättkelle \(4117\)](#)
- [Smoothing Trowel Duo \(4118\)](#)
- [Schwammbrett gelb \(4936\)](#)
- [Latex float \(4548\)](#)

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 conformity



Remmers GmbH

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GBI P60-2

EN 1504-3: ZA.1a

5777

Product for structural and non-structural repair for concrete

Compressive strength:	class R4
Chloride ion content:	< 0.05 %
Adhesive bond:	≥ 2 MPa
Carbonation resistance:	passed
Elastic modulus:	≥ 20 GPa
Thermal compatibility part 1 & 4:	≥ 2 MPa
Capillary absorption:	≤ 0.5 kg/(m ² h ^{0.5})
Reaction to fire:	class A2fl-s1
Dangerous substances:	see Safety Data Sheet

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.