



Betofix R4 EM rapid

Fast-acting, high-strength PCC screed mortar

Type/Name	Availability	
	Quantity per pallet	36
	Size / Quantity	25 kg
	Type of container	Paper bag
	Container code	25
	Art. no.	
grey	1094	■

Application rate

Approx. 2.0 kg/m²/mm coating thickness, or approx. 2.0 kg/dm³



Range of use



- Repair of concrete construction components with a rough surface that are positioned horizontally or at a gentle slant
- Bonded screed, floating screed and screed on separating layer
- Heated screeds
- Load-bearing layer underneath reactive resin coatings
- Base layer under Remmers Crete coatings
- Interior and exterior use

Property profile

- High mechanical resistance
- Fast curing
- Low shrinkage
- Low-stress and crack-free setting
- Can be applied by machine
- Screed according to DIN EN 13813: CT - C40 - F6 - A7 - B1.5

Characteristic data of the product

Water requirement	Approx. 8%, equivalent to 2.0 l/25 kg
Ready to be covered	Diffusible coverings/coatings: approx. 12 h Vapour-tight coverings/coatings: approx. 24 h
Flexural strength	28 d: ≥ 6.0 N/mm ²
Reaction to fire	Class A1 _{fl}
Compressive strength	Room temperature 20 °C: 6 h: ≥ 15 N/mm ² 24 h: ≥ 35 N/mm ² 28 d: ≥ 40 N/mm ² Room temperature 5 °C: 24 h: ≥ 30 N/mm ² 28 d: ≥ 40 N/mm ²
Maximum grain size	5 mm
Bulk density of fresh mortar	Approx. 2.1 kg/dm ³

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 (1087)**

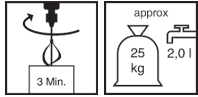
Preparation

- **Substrate requirements**
The substrate must be firm, dimensionally stable, capable of bearing loads and free of loose constituents, dust, oil, grease, rubber marks and other substances that could interfere with adhesion.



The tensile strength of the surface of the substrate must be at least 1.5 N/mm² on average (smallest individual value of at least 1.0 N/mm²), and the compressive strength must be at least 25 N/mm².

Production of the mixture

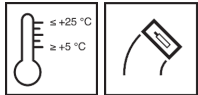


■ **Mixing**

Prepare water, add dry mortar and mix until homogeneous. When using as a bonding slurry, add approx. 11% water.

Mixing time: approx. 3 minutes

Directions



■ **Conditions for use**

Temperature of the material, air and substrate: from min. +5 °C to max. +25 °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.

Application time:

(+20 °C): approx. 30 minutes

Layer thickness

Single layer thickness < 80 mm

Layer thickness in breakouts up to max. 100 mm

In the case of bonded screeds, apply the product while the bonding layer is still 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.

Tools / Cleaning

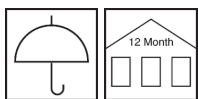


Mixing tool, trowel, aluminium rule, smoothing trowel, power trowel
Clean tools with water while the material is still fresh.

Remmers tools

- > **Mischgefäß (4030)**
- > **Smoothing Trowel (4004)**
- > **Bodenglätter (4116)**
- > **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 68-4

EN 13813: 2002 (CT – C40 – F6 – A7 - B1,5)

1094

For applications with low performance requirements in construction and civil engineering

Reaction to fire:	A1fl
Release of corrosive substances:	CT
Water permeability:	NPD
Water vapour permeability:	NPD
Compressive strength:	C40
Flexural strength:	F6
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	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.