



Betofix R2

Fast repair mortar

| Colour | Availability |
|------------|--------------------------|
| | Quantity per pallet 42 |
| | Packaging unit 25 kg |
| | Type of container PE bag |
| | Container code 25 |
| | Art. no. |
| light grey | 1093 ■ |

Application rate

Approx. 1.4 kg/m²/mm layer thickness



Range of use



- Repair of coarse concrete surfaces in areas that are not exposed to static or dynamic loads
- Repair of holes, cracks, pores, missing and broken out areas
- Levelling of concrete surfaces
- Mineral protection against the corrosion of reinforcement steel (in combination with S-Protect M, art. 0919)

Property profile

- Certified in accordance with DIN EN 1504-3
- Can be applied by spatula and felted
- Well suited to overhead working
- Low-stress and crack-free setting
- Compression strength after 28 d: > 15 N/mm²
- Freeze/thaw-resistant

Characteristic data of the product



| | |
|---|--|
| Layer thickness | Single layer 1 - 10 mm Two layers < 20 mm, apply wet-on-wet In broken-out areas < 100 mm |
| Water requirement | Approx. 4.5 l/25 kg |
| Capillary water uptake | $\leq 0.5 \text{ kg}/(\text{m}^2\text{h}^{0.5})$ |
| Strength class | R2 (DIN EN 1504-3) |
| Flexural tensile strength (28 days) | Approx. 5 N/mm ² |
| Reaction to fire | Class E |
| Compressive strength | 3 hours: approx. 5 N/mm ² 24 hours: approx. 9 N/mm ² 28 days: > 15 N/mm ² |
| Maximum grain size | 0.5 mm |
| Adhesion capacity (DIN EN 1542) (28 days) | $\geq 0.8 \text{ MPa}$ |
| Consistency of the mixture | For filling |

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

Certificates

- [Test report M 1105/1 Suitability test R2 according to EN 1504-3, ibac Aachen](#)
- [Classification report for reaction to fire according to DIN EN 13501-1, MPA Erwitte](#)

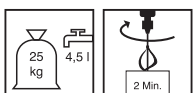
Possible system products

- [S-Protect M \(0919\)](#)
- [Betofix NBM \(1230\)](#)

Preparation

- **Substrate requirements**
Clean, dust-free and capable of supporting a load.
- **Substrate preparation**
Expose all steel parts, derust to a degree of purity of SA 2½
Pre-wet the substrate so that it is slightly moist.

Production of the mixture

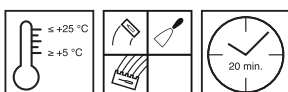


- **Mixing**
Protection against corrosion in combination with S-Protect M (Rust Inhibitor M)
Pour 1 part per weight S-Protect M (art. 0919) in a clean container and add approx. 2.5 parts per weight of the product.
Mix thoroughly for approximately 3 minutes until the proper consistency for working has been achieved.

Concrete replacement

Pour water into a clean container and add dry mortar.
Mix thoroughly and uniformly with a mixer for approx. 2 minutes 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. +25 °C
Low temperatures increase, while high temperatures decrease the working and setting time.



■ **Working time (+20 °C)**

Approx. 20 minutes

Protection against corrosion in combination with S-Protect M (Rust Inhibitor M)

Apply to layers of grout with a thickness of 1 mm each making sure the entire surface is covered.

Waiting time between layers: approx. 30 minutes.

Follow-up work must be carried out wet on wet.

Concrete replacement

If necessary, apply a scratch coat with the product itself.

Dilute the product slightly before applying the product to hard-to-reach places in the form of contact sludge.

Apply the desired layer thickness and smoothen the surface.

After 15 - 30 minutes felt, rub, smoothen or texture the surface.

Tips on use

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

Do not mix more mortar than can be used within approx. 20 minutes.

Can be overcoated after 2-3 hours.

Protect fresh mortar surfaces for at least 2 days from drying out too quickly, and from frost and rain.

Notes

The mixing water must be of drinking water quality.

May contain traces of pyrite (iron sulphide).

Low chromate content in accordance with Directive 2003/53/EC.

The characteristic data of the product were calculated under laboratory conditions at 20°C and 65% relative humidity.

The product is not suited for floor surfaces outdoors.

Deviations from applicable regulations must be agreed separately.

The relevant test certificates must be observed when planning and carrying out work.

Tools / Cleaning

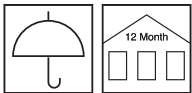
Mixer, brush, filling knife, trowel, smoothing trowel, sponge float, plasterer's float



Clean tools with water while the material is still fresh.

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.



CE marking



Remmers GmbH

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GBI P 4-1

EN 1504-3: 2005

1093

PCC mortar for non structural repair for concrete

| | |
|-------------------------------------|--|
| Compressive strength: | Class R2 |
| Chloride ion content: | $\leq 0.05 \%$ |
| Adhesive bond: | $\geq 0.8 \text{ MPa}$ |
| Restrained shrinkage/expansion: | $\geq 0.8 \text{ MPa}$ |
| Carbonation resistance: | NPD |
| Elastic modulus: | NPD |
| Thermal compatibility part 1 and 4: | $\geq 0.8 \text{ MPa}$ |
| Capillary absorption: | $\leq 0.5 \text{ kg}/(\text{m}^2\text{h}^{0.5})$ |
| Reaction to fire: | Class E |

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.

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