

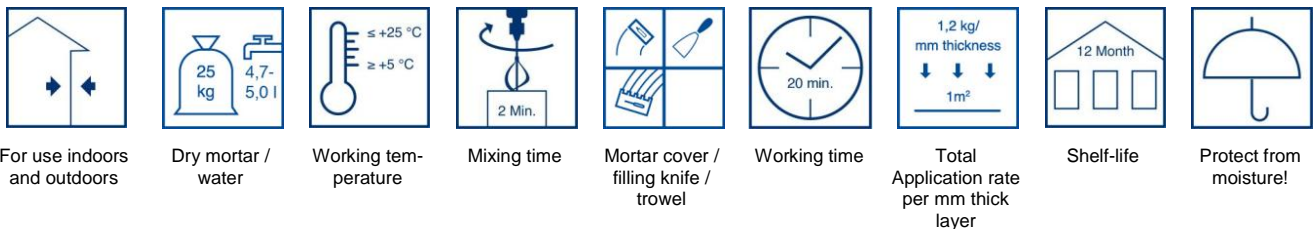


Technical Data Sheet Art. No. 1092

Betofix RM

Versatile repair mortar for repairing concrete in just a few hours

Low in chromate in accordance with RL 2003/53/EC



Range of use

- Fast concrete repairs in facade areas
- For repairing superficial damage on concrete, reinforced concrete and light-weight concrete
- As mineral corrosion protection for reinforcement steel (with Remmers Rust Inhibitor M,)
- For closing broken out areas, gravel pockets, pores, uneven surfaces, spacers and holes without an additional bonding layer!
- For patching broken corners and edges

Property profile

Remmers Betofix RM is a factory-mixed, highly modified, fast repair mortar that is ready to use after mixing with water, sets quickly hydraulically and dries quickly.

- Concrete can be completely repaired in just a few hours.
- Versatile, fast repair mortar, for corrosion protection, can be

Characteristic data of the product

Colour:	grey
Grain:	0 – 0.5 mm
Fresh mortar density:	approx. 1.7 kg/dm ³
Consistence:	for filling
Working time:	approx. 40 min. at 10 °C approx. 20 min. at 20 °C
Commencement of setting:	approx. 60 min.
Compressive strength:	after 3 hours: ~ 3 N/mm ² after 24 hours: ~ 6 N/mm ² after 28 days: > 15 N/mm ²
Adhesion capacity (EN 1542):	after 28 days: ≥ 1.5 N/mm ²
Loading class	R2 according to DIN EN 1504-3

- used as a coarse and fine mortar. No bonding layer required!
- M1 mortar according to DAfStb
- R2 mortar according to DIN EN 1504-3
- Very easy to use, high yielding
- Can be applied with a filling knife and felted
- Can be worked overhead
- Can be applied in any thickness since it has low inherent stress and sets crack free
- High adhesive pull strength and good adhesion
- Binds water quickly, can be coated over after 2-3 hours

- Frost resistant, can be used indoors and outdoors

Substrate

The substrate must be sound, load-bearing and free of substances that could interfere with adhesion. Remove all loose, soft and hollow material by mechanical means. The resulting substrate must be sufficiently rough and absorbent to ensure a bond with Betofix RM. Highly absorbent substrates should be pre-wet several in advance! On non or only weakly absorbent substrates pre-wetting is not necessary.

If there are deeper broken out areas, the adhesive pull strength of the substrate should be at least 1.5 N/mm². Expose steel reinforcement and prepare to bright metal (SA 2 ½). Then mix 2.5 parts by weight Betofix RM with 1 part by weight Rust Inhibitor M until a homogeneous brushing consistence has been achieved.

Ratio by volume: 2 parts by volume dispersion + 3.5 parts by volume powder.

Coat the entire surface of the steel reinforcement with the freshly mixed corrosion protection grout at least 1 mm thick.

Apply a second coat of fresh corrosion inhibiting grout after a waiting time of at least 30 minutes. After a further 30 minutes, the broken out area can be closed with Betofix RM.

Concrete repairs

Pour **4.7 l – 5.0 l of water** into a clean container (mortar tub) and then add **25 kg Betofix RM**.

Mix thoroughly with a mixer/drill and paddle for approx. 2 minutes until the proper consistence for working has been achieved. **Partial amounts can be mixed in a ratio of 1 part by volume water to 3.7 parts by volume powder.**

Betofix RM sets quickly and can be coated over the same day. Mix only the quantity of mortar that can be applied within 20 minutes (depending on temperature). Betofix RM starts to set during pot-life which allows even deep broken out areas to be completely closed in one working operation.

■ Closing broken out areas

After mixing, apply Betofix RM with a trowel in the desired layer thickness and then smooth. An additional bonding layer is not necessary.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

After 15-30 minutes the surface can be rubbed very fine and smooth with a red sponge float. If necessary, the surface can be finished to match the texture of adjacent surfaces.

■ Coatings, fillings

Apply Betofix R2 to the dry or matt damp substrate as a scratch coat to fill pipes or as a coating. Finish the surface as desired by felting, rubbing, smoothing or texturing.

Notes

Initially set mortar cannot be made workable again by adding water or fresh mortar. Do not use if the temperature of the air, substrate or building material is below 5 °C or above 25 °C.

The characteristic data given for this product were determined under laboratory conditions at 23 °C and 50 % relative humidity. Low temperatures lengthen, high temperatures reduce working and setting time.

May contain traces of pyrite or iron sulphide.

Protect the repaired areas from drying out too quickly in direct sunlight or drafts.

Tools, cleaning

Mixing equipment, Brush, filler, stainless steel trowel, sponge float, plasterer's float

Clean tools with water while the material is still fresh.

Packaging, application rate, shelf-life

Packaging:

5 kg bucket, 25 kg paper bag

Application rate-dry mortar:

Approx. 1.2 kg/m²/mm thick layer

Shelf-life:

At least 12 months stored dry in closed bags

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.



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Betofix RM

Product for structural and non structural repair for concrete

Compressive strength:	class R2
Chloride ion content:	≤ 0,05 %
Adhesive bond:	≥ 0,8 MPa
Restrained shrinkage / expansion:	≥ 0,8 MPa
Carbonation resistance:	NPD
Elastic modulus:	NPD
Thermal compatibility:	≥ 0,8 MPa
Capillary absorption:	≤ 0,5 kg/(m ² • h ^{0,5})
Reaction to fire:	class E



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