Technical Data Sheet
Art. No. 1093
Betofix R2
Versatile, fast repair mortar for repairing concrete in just a few hours
Basic test R2 by RWTH Aachen
Low in chromate in accordance with RL 2003/53/EC

Range of use
Versatile and reliable fast repair mortar
- 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, Art. No. 0919)
- For closing broken out areas, pipes, pores, unevenness and gravel pockets

Property profile
Remmers Betofix R2 is a factory-mixed, highly modified, fast repair mortar that is ready to use after mixing with water and sets hydraulically.
- For versatile corrosion protection, it can be used with coarse and fine mortar. No bonding layer required!
- Very easy to use, high yielding
- Can be applied with a filling knife and felted
- Can be worked overhead

Characteristic data of the product
Colour: grey
Grain: 0 – 0.5 mm
Working time (20 °C):
- Commencement of setting: approx. 60 min.
- Compressive strength (EN 12190):
  - after 3 hours: approx. 5 N/mm²
  - after 24 hours: approx. 9 N/mm²
  - after 28 days: approx. 20 N/mm²
- Flexural strength (EN 12190): approx. 5 N/mm²
- Loading class R2 according to DIN EN 1504-3
- High adhesive pull strength and good adhesion
- Can be applied in any thickness since it is very low stress and crack free
- Binds water quickly, can be coated over after 2–3 hours
- Frost resistant, can be used indoors and outdoors
- Substrate must correspond to the relevant technical rules. The pre-wet substrate should be still slightly absorbent.
- De-rust exposed reinforcement steel to blank metal SA 2 1/2 and remove dust and grease. If there are deeper broken out areas, the adhesive pull strength of the substrate should be at least 1.5 N/mm².
- Then mix 2 parts by weight Betofix R2 with 0.9 parts by weight Rust Inhibitor M until a homogeneous brushing consistence has been achieved.
- Ratio by volume: 2 parts by volume dispersion + 2.5 parts by volume powder.

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Coat the entire surface of the steel reinforcement with the freshly mixed corrosion inhibiting 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 R2.

**Directions**

Pour 4.5 l of water into a clean container (mortar tub) and add 25 kg Betofix R2.

Mix thoroughly with a mixer/drill and paddle for approx. 3 minutes until the proper consistence for working has been achieved. For a 5 kg container, add 0.9 litres of water. Partial amounts can be mixed with 1 part by volume water and 4 parts by volume powder. Betofix R2 sets quickly and can be coated over the same day. Mix only the quantity of mortar that can be applied within 20-40 minutes (depending on temperature).

Betofix R2 starts to set during pot-life which allows even deep broken out areas to be completely closed in one working operation. When used as a surface filler, Betofix R2 can be kept smooth within the first 20 minutes without adding more water by stirring.

**Closing broken out areas**

Do not pre-wet the concrete substrate before applying Betofix R2. The mortar can be applied to dry or matt damp (not wet) substrates. After mixing, apply Betofix R2 with a trowel in the desired layer thickness and then smooth. An additional bonding layer is not necessary.

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.

**Notes**

Initially set mortar cannot be made workable again by adding water or fresh mortar. Do not use if the substrate temperature of the air, substrate 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, filling knife, stainless steel trowel, red sponge float, plasterer’s float, knife, sponge float, plasterer’s float, cleaning sponge, stainless steel trowel, red rubber float, cleaning sponge.

Clean tools up to material is still fresh.

**Packaging, application rate, shelf-life**

**Packaging:**
25 kg paper bags

**Application rate-dry mortar:**
Approx. 1.4 kg/m²/mm thick layer

**Shelf-life:**
At least 12 months stored dry in closed buckets/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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**EN 1504 – 3:2005**
GBI P4-1

**Betofix R2**
PCC Mortar for structural repair for concrete

**Compressive strength:**
class R

**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/(m² • h⁰·⁵)

**Reaction to fire:**
class E

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