

Technical data sheet



Uses

- protection of steel bars in reinforced concrete structures against corrosion
- bonding layer for concrete repair mortar weber.rep R4 duo
- safe bonding of mortar and concrete

Advantages

- corrosion protection and bonding layer in one product
- excellent adhesion
- high protection and very resistant against severe environmental influences



Mineral corrosion protection for reinforcement bars and bonding layer for concrete surfaces

Fields of application

weber.rep KB duo is a combination product which is usable as a mineral corrosion protection for reinforcement steel bars as well as a cementitious bonding layer. For interior and exterior use.

Description

weber.rep KB duo is a single-component polymer-modified dry-mix mortar. It complies with the requirements of EN 1504-07. **weber.rep KB duo** is together with **weber.rep R4 duo** part of a system which is tested according to ZTV-ING and DAfStb-Rili (test certificates). Official German approval AbP n° P-5268/005/14-MPA BS.

Composition

Cement, mineral additives, polymers, regulating additives

Main features

- excellent bonding
- easy application /easy to spread
- short drying time
- mineral-based
- long pot life
- non-sag
- high protection / very resistant against severe environmental influences

Date: 10.03.2015



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Supervisory Board: Hartmut Fischer .Management Board: Alfred Hörner (chairman), Roman Lackner

Quality control

weber.rep KB duo is subject to permanent internal and external quality control.

Technical data

Thickness as corrosion protection	min. 1 mm in 2 layers
Application temperature	+ 5 °C up to + 30 °C
Density of fresh-mixed material	approx. 2.0 kg/dm ³
Consistency	slurry-grade
Bulk density powder	approx. 1.1 kg/dm ³
Pot life	approx. 80 minutes
Clean-up	when fresh, with water; after hardening, only by mechanical way

General notices

- All figures given in this data sheet are based on a temperature of + 20° C without draught and a relative humidity rate of 60 %.

Specific notices

- Do not mix with other products.

Preparation of substrates

As corrosion protection

- All damaged concrete should be cut back at least 15 mm behind any exposed reinforcement.
- Remove rust from corroded steel bars according to EN 12944-4, scale 2.5 (bright surface).

As bonding layer

- The substrate must be clean, frost-free, absorbent, load-bearing, rough and free of all adhesion-impairing substances.
- Appropriate substrate treatments are milling, sand-blasting or other ones.
- Bonding strength of surface > 1.5 N/mm²
- Pre-wet concrete surfaces intensively with water, until it is dull-moist. Avoid puddles.

Working instructions

Mixing

- Mix the content of a bag with 30 % of water (6 liters per 20 kg resp. 1.5 liter per 5 kg dry mortar) until lump-free.
- First pour water, than powder step by step.
- Mix 3 minutes intensively with stirrer **weber.sys Rührpaddel no. 1** (5 kg bag) and **n° 2** (20 kg bag).
- Mix the ready-mixed material during the application occasionally, since it is likely to stiffen.

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Application as corrosion protection

- Apply two full, unbroken coats of **weber.rep KB duo** within 2-3 hours waiting time between each operation.
- Application of the bonding layer **weber.rep KB duo** can be done, as soon as the second protection coat has hardened sufficiently (approx. 2-3 hours).

Application as bonding layer

- Apply the bonding layer by brush or broom onto the prepared concrete surface.
- Apply the concrete repair mortar **weber.rep R4 duo** on the fresh bonding layer at full coverage.
- Take care that the application area where the concrete repair mortar will be applied, should have such dimensions that it can be applied on the fresh bonding layer before a skin starts to form. Therefore both materials should be mixed at the same time.

Consumption

- as corrosion protection per meter steel, \varnothing 14 mm, for 2 coats: approx. 190 g per meter
- as bonding layer depending on the roughness of the surfaces: approx. 1.5 – 2.5 kg/m²

Practical information

Colour	concrete grey
Tools	brush, broom, paintbrush, stirrer weber.sys Rührpaddel no. 1 (5 kg bag) and n° 2 (20 kg bag)
Water ratio	max. 6 liters / 20 kg bag resp. max. 1.5 liter / 5 kg bag
Drying time	approx. 2 – 3 hours per each layer (as corrosion protection)
Storage	the product can be stored min. 12 months in its original unopened packaging.

Packaging**Sales unit****Number per wrapped euro-pallet**

Paper bag	20 kg	42 bags
Plastic foil bag	5 kg	72 bags

Legal notes

The correct and hence successful application of our products is not within our control. A guarantee can therefore only be accepted for the quality of our products within the framework of our sale and supply conditions but not for their successful use.

Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging.

This data sheet supersedes all earlier technical data on this product. Information supplied by our employees and/or distributors going beyond the scope of this data sheet must be confirmed in writing.

We reserve the right to make changes representing technical progress.

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