

# WEBER REP 05 ANTI-CORROSION MORTAR



- Polymer modified (PMC)
- Improves the adhesion of the repair mortar to the steel
- Also works as an adhesive mortar
- Certified EPD environmental product description
- The product is a declared item in the Supply Chain Declaration Portal (SCDP) for New Buildings generation 4.

## ABOUT THIS PRODUCT

Cement-based fast-curing corrosion protection mortar for reinforcing steel. Can also be used between old concrete and patching mortar as a layer to improve adhesion.

## AREA OF USE

Corrosion protection of cleaned concrete reinforcements by forming a slowly permeable, alkaline layer around the steel. It can also be used as a layer between old concrete and repair mortar to improve adhesion when the surface of the subconcrete is not sufficiently rough.

## SUBSTRATE

The old concrete around the steels is removed, for example by mechanical chiseling or water-chiselling. When using mechanical chiselling, the last layer must be removed as carefully as possible or used e.g. water sand blasting to avoid fractures in the substrate etc. debilitating factors. The surrounding concrete is also removed from behind the steel so that the backing of the steel can also be treated. In the longitudinal direction of the steel, concrete is removed about 300 mm above the corrosion damage site.

## PRODUCT SPECIFICATION

Material consumption	approx. 0,1 kg/m for 10 mm steel, 3-4 kg/m <sup>2</sup> as an adhesion layer for concrete
Recommended water content	1.25-1.5 l/5 kg of dry product (25-30%)
Mixed volume	approx. 3 l/5 kg
Pot life (Operating time)	approx. 60 min
Binder	Cement and polymer
Aggregate	Natural sand 0-0.5 mm
Adhesion strength 28 days	For concrete more than 1.5 MPa; steel more than 2 MPa
Color	Grey
Storage conditions	Shelf life 18 months from the date of manufacture (unopened packaging, dry space)
Package	<ul style="list-style-type: none"> <li>• sales unit 5 kg bag</li> <li>• minimum order quantity 3 pcs</li> <li>• wholesale packaging 3 pcs</li> </ul>
GTIN-codes	6415910043322 (5 kg)
Certifications	CE, EPD, Key Flag Symbol

Steels are cleaned to at least grade Sa 2 or St 2 (the degree of purification of steel cleaned by water chiseling corresponds to class Sa 2). The substrate must be absorbent and clean of dust etc. substances that weaken adhesion. The concrete substrate is well moistened. When starting work, the substrate must be "matte damp" but absorbent.

## MIXING

5 kg of mortar is mixed with 1.25-1.5 liters of potable water. The mixing is done in two stages: first, the minimum amount of water is measured in the mixing container, the dry product is added and the mixture is mixed until homogeneous. After this, the mortar is allowed to stand for about 5 minutes, stirred again and, if necessary, a little water is added to achieve the desired flexibility. The mortar remains usable for about 60 minutes, depending on the conditions. The temperature of the mixing water is selected so that the temperature of the finished mortar is above +10 °C.

## WORK INSTRUCTIONS

After cleaning, the steels are immediately dried and protected with REP 05 Anti-corrosion mortar. The temperature of the air and the substrate must be above +5 °C during work and for 3 days afterwards.

Steel protection is done in two layers:

- a layer of approx. 1 mm of REP 05 Anti-corrosion mortar is slammed around the cleaned steel. The treatment is done with a brush so that the reinforcing bars are completely covered.
- The 2nd treatment is done when the 1st layer has dried sufficiently, after 4-24 hours, depending on the conditions.

After the second treatment, the patterns of the rebar are almost completely covered. The aim of the treatment is to avoid REP 05 splashes on the subconcrete. Small spills can be brushed onto the substrate, but large, uniform areas of dried spills must be removed. The actual patching work begins immediately after the second treatment on a "wet-on-wet" basis.

When the product is used to improve adhesion, the adhesion layer is brushed onto the surface of the moistened concrete with a coarse brush so that 100% adhesion is

obtained. The repair mortar is immediately applied to the "wet-wet" fresh surface of REP 05.

More detailed information can be found in Weber's repair mortar work instructions.

#### AFTER-TREATMENT

The treated area is protected from drying too quickly, especially from direct sunlight and wind.

#### DISCLAIMER

As there are different conditions at every opportunity, Weber can not be held responsible for anything other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.