



weber REP 05

Anti-corrosion mortar

- Adhesive slurry and rust protection in one product
- CE marked according to EN 1504-4
- CEM II/A-V 52.5 N Portland-flyash

About this product

REP 05 is a dry mix for slurring concrete surfaces and reinforcing steel before repairing with concrete or repair mortar. Mix with water to obtain a ready-to-use slurry. Provides adhesion and rust protection. REP 05 Betoheft is part of Weber's system for concrete repairs. REP 05 Betoheft is CE marked according to EN 1504-4 - adhesion to concrete

Product attributes

- Coatable
- Fire resistance
- Moist resistance

Application characteristics

- Hand applied

Area of use

REP 05 concrete lift is used for reconditioning and repairs of concrete both outdoors and indoors. REP 05 adhesionslurry is applied to cleaned reinforcing steel to protect them from corrosion and as a slurry application on well-cleaned concrete to build up adhesion between the old concrete and the new repairing mortar. Also used as carbonation braking, leveling for filling pores on surfaces before painting

Substrate type

- Concrete
- Steel

Pretreatment

Loose, porous and greasy contaminants as well as crack-filled concrete, surface area and paint are removed by concrete grinding, chipping hammer or similar. Steel-smoothed and other smooth surfaces are roughened e.g. blasting. For concrete with reinforcing steel, carbonated concrete should be removed if possible. This is checked with "Concrete indicator". If strong purple is obtained from the concrete, it is not carbonated. Reinforcing steel and other potting parts are mechanically cleaned from concrete residues and rust by steel brushing or blasting. There must be no cracks, dirt or poor concrete on adjacent concrete surfaces. The use of mechanical tools should be done with care so that no new damage occurs. The edges between the repair area and undamaged surfaces must not be sloping. The connections are made perpendicular. The repair area should be pre-moistened so that this is moist but not wet. Free water must not be present. Watering may need to be done for several days

Mixing

REP 05 mixed mechanically (drill with beater) for about 5 minutes with approx 1.2L water / 5 kg. REP 05 betoheft yields approximately 3.0L ready to use, easy-flowing slurry.

Product specification

Material consumption	3-4 kg/m ² at 2-3mm layer
Grain size	0,025mm
Recommended layer thickness	approx 2mm
Recommended water content	5 kg: 1,2l
Mixed volume	5 kg: ~ 3,4l / 15 kg: ~ 10l
Application temperature	+5°C - +30°C
Pot life (Operating time)	approx 60min vid +20° C
Drying time	about 3 hours
Binder	Special cement and polymer
Cement type and class	CEM II/A-V 52.5 N Portland-flyash
Ballast	Natural sand/gravel 0-0,25mm
Adhesion strength	Meets requirements according to standard EN 1504-4
Compressive strength 28 days	> 30 MPa according to EN 12190
Resistivity	7500 Ωcm, wet storage
Frost resistance	Yes, SS 137244 2A (salt environment)
Modulus of elasticity	approx 12 Gpa according to EN 13 412
Air content	2-3% according to EN 1015-7
Thermal elongation	<100x10 ⁻⁶ / K according to EN 1770
Water cement ratio	< 0,50
CE-marking designation code	1504-4
E-modulus	>2000 MPa
Storage conditions	The storage time for bags on wrapped pallet is about 12 months from the packing day. Store dry.
Package	5 kg bag 20 kg bag

Work instructions

1. Incorporation with the slurry REP 05 Betoheft is carried out the day after cleaning and watering. REP 05 concrete adhesive is applied in thickness about 2mm. The substrate must be moist but still absorbent. The slurry is made with a hard brush so that both reinforcing steel, pores and concrete surfaces are completely covered. 2. The repair operation is applied when the slurry adheres stiffer but not dried, almost wet in wet. The sludge operation is applied with a suitable tool and is built up to the desired thickness. In thicker repairs, the next layer is applied when the first stiffener suffices to support the subsequent layers. The surface between the layers should have a rough structure for best adhesion. Prevent rapid dehydration. 3. After completion of the repair, the entire surface

can be slammed with 2-3mm REP 05 to achieve a uniform structure. Apply with syringe, putty, brush or soft brush. Premoisture the substrate before slurring. Betoheft gives a "carbonation-braking" porphyric surface, which is suitable for painting if desired.

After-treatment

Prevent rapid dehydration from sun, wind, heat radiation, etc. If there is a risk of rapid dehydration, protective cover is recommended, or a few days watering (keep moisturized). All paintings are should be made with paint suitable for concrete, such as Weber Concrete paint. Afterfinishing can be done with Rep 990 Concrete protection.

Please observe

Winter Management: At a temperature lower than + 5 ° C, the growth will stop. If there is a risk of lower temperatures for the next few days, be advised not to initiate use of the produkt if heating can't be achieved.

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.