

# WEBER REP 65 REPAIR MORTAR



- Repair mortar - Slow curing, low alkaline
- Repair class R4 EN 1504-3
- High through-carbonization resistance

## ABOUT THIS PRODUCT

Rep 65 is a dry, workable mortar based on building cement with plastic fibre intended for repairing concrete without formwork. It is simply mixed with water to give a ready-for-use repair cement with high strength and normally good adhesion and durability. Rep 65 is part of the Weber system for concrete repair. Repair class R4 in accordance with EN 1504-3.

## AREA OF USE

Rep 65 is used for reconditioning and repairing concrete where a repair mortar based on slowcuring, low alkaline building cement is required. Designed for repairing concrete without using formwork in layers of 5-50 mm thickness. (50 mm on certain surfaces.) For thicker layers, the cement is applied in several layers. When applying to horizontal surfaces or surfaces with horizontal support, Rep 65 can be applied in one layer. Contains plastic fibre to reduce the risk of cracking. Rep 65 is designed for repairing very high grade concrete (at least C32/40) and where great durability is required. A 20 mm layer will withstand carbonation for 50 years.

## CONSTRAINTS

- Should not be used in temperatures below +5°C

## PRODUCT SPECIFICATION

Material consumption	Approx 20 kg/m <sup>2</sup> at 10mm layer thickness
Recommended layer thickness	5-50mm
Recommended water content	2,6-3,0 l / 20 kg
Pot life (Operating time)	About 60min at +20°
Curing start	approx 4 hours
Binder	Cem I 42,5mH/LA/SR3
Fiber	Yes, polypropylene
Aggregate	Natural gravel/sand 0-2mm
Adhesion strength 28 days	>2,0 MPa
Compressive strength 1 day	>20 MPa according to EN 12390-3
Compressive strength 3 days	>40 MPa according to EN 12390-3.
Compressive strength 7 days	>45 MPa according to EN 12390-3
Compressive strength 28 days	>65 MPa according to EN 12390-3. For accredited strength testing report at 28 days, contact Weber.
Flexural strength 28 days	>8 MPa according to EN 1015-11
Exposure class	X0/XC4/XS3/XD3/XF4/XA2 according to EN 206-1
Repair class	R4 according to EN 1504-3
Resistivity	7500 Ωcm, wet storage
Frost resistance	Yes, XF4 according to SS 13 72 44 (salt environment)
Waterproof	Yes, according to SS 137214
Air content	5-8% according to EN 1015-7
Water cement ratio	approx 0,30
Storage conditions	Storage time for bags on a plastic-covered pallet is approx. 12 months from date of packing. Store in a dry place.
Package	20 kg bag
Global Warming Potential (GWP) Acc. EPD A1-A3	0.457 kg CO <sub>2</sub> e/kg

## PRETREATMENT

Loose, porous and greasy contamination such as cracked concrete, formwork oil and paint are removed with a shotblasting, grinding or similar tool. Smoothed and finished surfaces are roughened. For concrete with steel reinforcement, carbonated concrete must be removed. This is checked with a "Concrete Indicator". If damp concrete has a strong red colour, it is not carbonated.1. Surplus concrete and rust is removed from reinforcing steel and other embedding details with a wire brush or sand blasting. 2. There should not be cracks, dirt or poor concrete on adjacent concrete surfaces. Picking should be done carefully so as to avoid new damage. Edges between the repair and undamaged surfaces should not be slanting. Joints should be square.3. Apply a 2-3 mm

thickness of Weber Beto heft Anl cement based adhesion slurry (see product sheet). The surface should be damp but still absorbent. Apply the slurry with a brush so that both reinforcing steel and concrete surfaces are completely covered.

#### MIXING

Rep 65 is mixed mechanically (drill with a whisk or planetary mixer) for about 5 minutes, using 2,6-3,0 litres of water per 20 kg bag, which gives about 11 litres of ready-to-use mixture. Mix the powder into the water. If the product is not mixed mechanically, its frostresistance and other properties may be impaired.

#### WORK INSTRUCTIONS

1. Rep 65 is applied when the Betoheft Anl slurry is stiff but not dry, almost as wet-on-wet. Rep 65 is applied with a trowel or other suitable tool and built up to the desired thickness. If building up layers, do not apply the next layer until the first has become stiff. On horizontal surfaces, Rep 65 can be used in thicknesses up to about 50 mm. Prevent the product from drying out too quickly. Keep watered for at least 7 days or cover with plastic. After this, surfaces should be treated with Weber Krympspärr (shrinkage block) to reduce the risk of cracks. 2. After completing the repair with Rep 65, the whole surface can be washed with 2-3 mm of Betoheft Anl so as to gain a unified structure. Apply with sprayer, putty knife or soft brush. Dampen the Rep 65 before applying the slurry. Betoheft gives a smooth, pore-free surface that helps to prevent carbonation and is suitable for painting if desired.

#### AFTER-TREATMENT

Prevent rapid drying out by sun, wind, heat radiation etc. A protective cover is recommended if there is a risk of

drying out. Alternatively, keep the surface watered for several days. After this, surfaces should be treated with Weber Krympspärr (shrinkage block) to reduce the risk of cracks, or alternatively painted with a product that is suitable for concrete, such as Weber's "Concrete Paint". Final treatment can also be done with REP 990 Betongsydd, which is a highly elastic protective shield.

#### PLEASE OBSERVE

Winter treatment: The development of the product's strength is impaired at temperatures below +5°C. If there is a risk of low temperatures in the next 24 hours, it is not recommended to commence repair unless a protective device such as enclosure and heating can be provided.

#### SAFETY REGULATION

Always read the applicable safety data sheets, use personal protective equipment and follow the workplace safety regulations.

#### 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.