



weber REP 930

- Durable concrete up to 50mm
- CEM I Portlandcement
- High salt-frost resistance
- High compressionstrength

About this product

REP 930 0-4 mm is a dry product containing low alkaline, slow curing cement. It is simply mixed with water to give a ready-for-use, lightly flowing concrete. It is durable in sulphate-containing environments and in its hardened state is highly resistant to salt and frost. Compressive strenght C40/50 with lightly flowing consistency. Repairclass R4.

Area of use

REP 930 construction concrete is used for concrete laying and casting works where a high quality and very durable concrete is required. REP 930 is intended for use in casting structures from 30mm. REP 931 is particularly suitable as filling and leveling concrete where a quick drying is desired (bathroom flooring, leveling of smaller floor surfaces etc.). When REP 930 is applied with adhesion to surrounding concrete, it should have a strength corresponding to at least C30.

Substrate type

- Concrete
- Mineral
- Brick
- Steel
- Stone

Constraints

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

Pretreatment

Clean casting site well. Raw, broken-up surfaces for casting against an existing structure provide best adhesion. Always moisten the casting site so that water is not sucked out of the casting compound. However when casting, no unconfined ground water should occur at the casting site. Adjust the consistency to the type of castingwork. REP 930 should be used in 30 minutes.

Mixing

Construction concrete 0-4mm is mechanically mixed for 5 minutes with about 1,7 l water per bag of 20 kg, whereby about 10 l concrete mass is obtained in easy-flowing consistency. No additional additives are required. Mixing is done with flat mixer or drill / whisk.

Work instructions

Mix the concrete. Fill molds. For larger thicknesses, careful compression should be performed for each layer of 30cm. Use slim vibrator rod in the first place. Do frequent dips. For horizontal casting use "vibro beam" or "vibro bridge". Immediately protect the casting from rapid dehydration. NOTE do not over-vibrate the concrete.

Product specification

Material consumption	approx 20kg/m ² at 10mm layer thickness
Recommended layer thickness	15-50mm
Recommended water content	1,7 l / 20 kg bag
Mixed volume	approx 10 l / 20 Kg
Application temperature	> 5 °C
Pot life (Operating time)	approx 30min
Curing start	approx 6 hours
Consistency	S4 according to EN 206-1
Binder	CEM I Portlandcement
Cement type and class	Cem I 42,5 MH/LA/SR3 according to EN 197-1
Aggregate	Natural gravel/sand 0-4mm
Adhesion strength 28 days	>2,0 MPa according to EN 1542
Compressive strength class	C40/50 according to EN 206-1
Compressive strength 1 day	>15 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	>55 MPa according to EN 12390-3. For accredited strength testing report at 28 days, contact Weber.
Flexural strength 28 days	>8,0 MPa according to EN 1015-II
Exposure class	X0, XC4, XS3, XD3, XF4, XA2 according to EN 206-1
Resistivity	9170 Ωcm, wet storage
Frost resistance	Yes, XF4 according to SS 13 72 44 1A
Modulus of elasticity	approx 20 Gpa according to EN 13 412
Waterproof	Yes, according to SS 137214
Air content	5-8% according to EN 1015-7
Density	approx 2200 kg/m ³ according to EN 12190
Water cement ratio	0,38
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 1000 kg bigbag Bulk
Global Warming Potential (GWP) Acc. EPD A1-A3	0,273 kg CO ₂ e/kg

After-treatment

Because of the concrete's low water to cement ratio, hardening with water or protection against rapid dehydration should be done immediately. If no after treatment such as painting is to be done, Weber shrinkage barrier can be applied to the surface immediately.

Please observe

The development of the product's strength is impaired at temperatures below + 5°C. Also take care when applying to cold concrete surfaces. Use warm concrete and protect completed work against cooling. Fresh concrete should not be exposed to frost until it achieves a strength corresponding to 5 MPa. Do not use water treatment to harden if there is a risk of minus temperatures.

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.