



# weber REP 931

- Construction concrete
- Pumpable
- Compression strength class C40/50
- In demands of quality and high durability
- Exposure class X0/XC4/XS3/XD3/XF4/XA2

## About this product

Building concrete 0-4 mm is a dry product containing low alkaline, slow curing cement. It is simply mixed with water to give a pumpable 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 strength C40/50 with lightly flowing consistency.

## Area of use

Pump concrete is used for concrete laying and casting work where a pumpable high quality and very durable concrete is required. REP 931 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 931 is applied with adhesion to surrounding concrete, it should have a strength corresponding to at least C30. REP 931 is specially adapted for pumping with a screw or piston pump.

## Substrate type

- Concrete
- Mineral
- Brick
- Steel
- Stone

## Constraints

- Should not be used in temperatures 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 931 should be used in 30 minutes.

## Mixing

REP 931 is mixed mechanically for 5 minutes with about 3.6 liters of water per 25 kg, yielding about 13 liters of concrete mass in light-flowing consistency. No additional additives are required. Mixing is done with, for example, flat mixer or quick mixer.

## Work instructions

Mix the concrete. Fill formwork. For thick layers, each layer of 30 cm should be compressed. Preferably use a small vibrator poker for a tighter finish. For horizontal applications use a beam or plate type vibrator. Immediately protect the concrete from drying out too fast.

## Product specification

Material consumption	2,0 kg/m <sup>2</sup> /mm
Recommended water content	approx 3,6L / 25 kg bag
Application temperature	> 5 °C
Pot life (Operating time)	approx 30min
Curing start	approx 4 hours
Cement type and class	Cem I 42,5 MH/LA/SR3 according to EN 197-1
Ballast	Natural gravel/sand 0-4mm
Adhesion strength 28 days	>2,0 MPa according to EN 1541
Compressive strength class	C40/50 according to EN 206
Compressive strength 1 day	>20 MPa according to EN 12390-3
Compressive strength 3 days	>35 MPa according to EN 12390-3
Compressive strength 7 days	>40 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.
Exposure class	X0, XC4, XS3, XD3, XF4, XA2 according to EN 206-1
Resistivity	9970 Ωcm, wet storage
Frost resistance	Yes, XF4 according to SS 13 72 44 1A
Modulus of elasticity	approx 12 Gpa according to EN 13 412
Waterproof	Yes, according to SS 137214
Air content	approx 7% according to EN 1510-7
Water cement ratio	approx 0,40
Shelf life	Storage time for bags on a plastic-covered pallet is approx. 12 months from date of packing. Store in a dry place.
Package	25 kg bag 1000 kg bigbag Bulk

### 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.

### Recycling

Please visit your local weber website to find information on waste material and packagings.

### 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.