

# WEBER REP 975 V CONCRETE SCRATCH REPAIR



- Cement based and polymer-modified (PMC)
- Light in colour, so can be left as a sprayed or float-treated final coat
- Applied by spraying or manually
- Slows down the penetration of humidity and carbon dioxide into the substrate concrete
- Certified EPD environmental product description
- The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

## ABOUT THIS PRODUCT

Frost resistant, class R2 repair mortar, which is designed for levelling concrete surfaces and for applying an even surface structure prior to coating. It is light in colour. Maximum grain size 1.2 mm.

## AREA OF USE

The purpose of the product is to close pores that occur in concrete surfaces and to level uneven surfaces prior to coating according to concrete repair principles 3.1. and 3.3. Product fulfills the requirements of R2-class according to SFS-EN 1504-3. It gives extra support to reinforcement by slowing down the penetration of humidity and carbon dioxide into the substrate.

## SUBSTRATE

Concrete surfaces are cleaned thoroughly. Damaged concrete or coating is removed. Exposed rebars are protected with weber REP 05 Slurry Primer and deeper fillings are applied according to Weber's instructions for Repair Mortars. The substrate is moistened the day before coating. The quantity of water used depends on conditions at the site (e.g. weather, quality of base concrete).

## PRODUCT SPECIFICATION

Material consumption	Approx. 2 kg/m <sup>2</sup> /mm
Recommended layer thickness	3-10 mm
Recommended water content	Approx. 3.2 l/20 kg of dry mix
Mixed volume	Approx. 13.6 l/20 kg
Pot life (Operating time)	Approx. 45 minutes
Binder	CEM II A 42,5 R, Fast-setting Portland cement and polymer
Aggregate	Limestone 0-1.2 mm
Additive	Additives that improve workability, adhesion and tightness
Adhesion strength 28 days	> 1.0 MPa (EN 1542)
Compressive strength 28 days	> 15 MPa (EN 12190)
Restrained shrinkage/expansion	Adhesion strength after test > 0.8 MPa (EN 12617-4)
Fire class	A2 (EN 13501-1)
Frost resistance	> 0.8 MPa (SFS-EN 13687-4)
Chloride content	< 0.05% (SFS-EN 1015-17)
Capillary absorption	≤ 0.5 kg/(m <sup>2</sup> *h <sup>0.5</sup> ) (SFS-EN 13057)
Equipment recommendations	Weber Pump Set to normal sacks. Stator 50/7R or Superstar 0,5, steel reinforced hose maximum of 40 m.
Storage conditions	Shelf life is approx. 12 months from the date of production (unopened package, in dry conditions)
Package	20 kg sack
GTIN-codes	6415910020767 (20 kg)
Certifications	CE, EPD, Key Flag Symbol

The substrate is moistened again just before the work is started. Work can be started when the water has been completely absorbed into the structure. The surface must be damp when coating is started.

## MIXING

A sack of REP 975 V powder (20 kg) is mixed into approx. 3.2 litres of clean potable water mechanically with e.g. a drilling machine beater. Mixing is done in two stages: first the water is measured into the mixing vessel using a smaller amount of water than instructed and then the dry product is added evenly, mixing constantly. This

way you obtain a homogenous and low-slump mix, which is left to set for 5-10 minutes. Then the substance is mixed again and the rest of the water is added. Do not use more water than instructed. Once prepared, the mortar remains usable for about 45 minutes.

#### WORK INSTRUCTIONS

The minimum temperature of the mixture is +5 °C. REP 975 V can be applied by spraying and levelling can be done afterwards using an expanded plastic float. REP 975 V can also be spread manually in a 2-5 mm thick layer using a trowel. The surface may be float-treated or a chosen structure can be achieved by brushing. However, the surface may also be left with the coating as sprayed on.

#### AFTER-TREATMENT

After-treatment is significant in terms of the adhesion, strength and tightness properties of REP 975 V. After-treatment includes keeping the fresh repair mortar continuously wet for 72 hours. After-treatment may be boosted and the drying effects of sun and wind prevented by covering the repaired surface with plastic. It is advisable for the working area to be covered in order

to neutralise environmental conditions, for example. After-treatment is finished by gradually decreasing the moistening. This way the mortar will avoid the shock of sudden drying, which might cause cracking or failure to grip.

#### PLEASE OBSERVE

Instructions for use are guidelines only. For example, the required after-treatment time may vary depending on the working conditions. It may be affected by air temperature, wind and the water absorption capacity of the substrate. That is why a suitable application is chosen for each target in order to achieve sufficient adhesion, strength and tightness.

#### 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.