

weber.tec 942

Borehole suspension

Highly sulphate-resistant and low shrinkage cement-based borehole suspension

Fields of application

weber.tec 942 is installed in addition to works with injection resins used as horizontal damp-proof barriers of masonries, such as **weber.tec 940 E**, **941** or **946**.

For closing boreholes after injection of the damp-proof resins and/or filling larger cavities in masonries, using either the pouring method or the injection method.

Also suitable in combination with the “wet-in-wet” method for the injection resin **weber.tec 940 E** with injection pumps of the companies Desoi or Dittmann.

For use indoors and outdoors.

Description

weber.tec 942 is a factory-mixed dry cementitious borehole filling mortar.

Composition

Trass cement, very fine-graded mineral fillers and regulating additives

Main features

- low shrinkage and low tension during hardening
- highly resistant to sulphates
- particularly high flow grade
- for use indoors and outdoors

Technical values

Application temperature:	+5°C - +30°C
Pot life:	approx. 1 hour
Flexural strength (28 days):	approx. 4.8 N/mm ²
Flexural strength (7 days):	approx. 2 N/mm ²
Compressive strength (28 days):	approx. 20 N/mm ²
Compressive strength (7 days):	approx. 10 N/mm ²

Quality control

weber.tec 942 is subject to a regular constant quality control.

Special notes

- Do not add foreign substances during mixing and application.
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Substrate preparation

- The substrate must be solid and free of dust, oil and grease.
 - Before injection blow out the boreholes with oil-free compressed air.
 - The substrate preparation must be adapted to the specific job site conditions.
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Working instructions

Mixing

- Depending on the required consistency, pour approx. 6.0 - 9.2 liters of water in a clean and suitable mixing vessel and fill in the bag content (20 kg).
- For partial quantities mix 300 - 450 ml of water per kg of **weber.tec 942**.
- Stir intensively for at least 3 minutes until lump-free, using an electric drill and the stirrer **weber.sys Rührpaddel no. 2** or **no. 3**.
- After mixing **weber.tec 942** can be applied in 3 methods: gravity method through funnel / injection method at low pressure via injection packers / "wet-in-wet" method via injection packers.
- In all cases refer to the technical data sheets of the injection resins **weber.tec 940 E**, **weber.tec 941** or **weber.tec 946** for full information.

Application within the gravity method

- The liquid damp-proof resins **weber.tec 940 E** or **941** are poured by gravity into boreholes through the masonry in several operations up to saturation.
- Respect the impregnation time of the pre-said resins before filling the boreholes.
- Fix plastic funnels along the masonry into the boreholes.
- Pour **weber.tec 942** into each funnel until full filling of the boreholes.

Application within the injection method at low pressure

- Drill horizontal boreholes at a distance of 10 - 12 cm in the masonries and fix the screw injection packers **weber.sys Schraubpacker**.
- Inject the liquid damp-proof resins **weber.tec 940 E** or **941** up to saturation with an injection pump at low pressure (< 10 bar).
- Afterwards press **weber.tec 942** into the packers with an inner diameter of 6 mm for filling the boreholes.

Application within the patented “wet-in-wet” injection method with **weber.tec 940E**

- In case of masonries with large cavities drill holes at a distance of 10 - 12 cm and at an angle of inclination of 15° - 20° diagonally downwards.
- First fill the cavities with **weber.tec 942**, using suitable injection packers.
- Afterwards, as soon as the mortar has started to stiffen, pierce the mortar with a test rod and inject the resin **weber.tec 940 E** with a pump through the same injection packers at a pressure of 15 - 20 bar.
- Repeat the injection of resin after approx. 1 - 3 hours.
- Finally close the boreholes with **weber.tec 942**.

Application with the injection cream **weber.tec 946**

- Drill horizontal boreholes at a distance of 8 - 12 cm in the masonries at an angle of inclination of 45°.
- Press the injection cream **weber.tec 946** with the manual gun **weber.sys Handruck-spritze no. 3**.
- After full saturation of the boreholes close them with **weber.tec 942**.

Practical information

Colours:

grey

Water demand:

approx. average 7.5 liters / 20 kg, according to required consistency

Tools:

Electric drill + stirrer **weber.sys Rührpaddel no. 2** or **no. 3**, funnel, screw injection nipples **weber.sys Schraubpacker**, injection pump.

Storage:

The product can be stored at least 12 months in its original unopened packaging, if kept dry.

Consumption / yield

powder per liter of volume: approx. 1.7 kg

Packagings

Type	Sales unit	Number / euro-pallet
Paper bag	20 kg	42 bags

The information in this technical data sheet is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.