

Technical data sheet



Uses

- for sealing moist building elements via injection
- for masonry and concrete

Advantages

expands up to 10 times its volume
closes cavities, cracks and pores
high chemical resistance



Quick-curing one-component polyurethane resin for waterproofing of cavities and cracks in concrete and masonry

Fields of application

weber.tec 944 is suitable for sealing of cavities and cracks in concrete and masonry, for ex. in foundations, basements, water reservoirs, swimming pools, sewage treatment plants, quay walls, shafts etc.

It is particularly suitable for waterproofing purposes in moist and wet areas. When large voids are to be filled, an increase in volume by 4 to 8 %, depending on temperature and humidity, must be taken into account.

Description

weber.tec 944 is a one-component, solvent-free polyurethane resin with moisture-dependent cure.

Composition

Water-reactive polyurethane resin

Main features

expands up to 10 times its original volume
resistant to salt water, salts, gasoline and oils
watertight
effective closing of cavities, cracks and pores
high chemical resistance
quick-curing

Date: 14.03.2016



Saint-Gobain Weber GmbH

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Register court: AG Düsseldorf HRB 65250 VAT-No.: DE 122 39 2875

Supervisory Board: Hartmut Fischer Management Board: Alfred Hörner (chairman), Roman Lackner

Quality control

weber.tec 944 is subject to a regular quality control.

Technical data

Consistency	liquid
Density	approx. 1.02 kg/dm ³
Application	injection and pouring
Application temperature	> 10 °C (air and substrate)
Temperature resistance	dry: approx. + 80 °C wet: approx. + 70 °C
Curing time	approx. 48 hours
Flash point	approx. 200 °C
Clean-up	thinner weber.sys 992

General notices

Limits of use:

- **weber.tec 944** will not provide any mechanical bonding. For this purpose use the 2-component epoxy resin **weber.tec 945**.
- for damp-proofing of walls against uprising damp we recommend the specific products **weber.tec 940 E** or **weber.tec 946**.

Areas to be treated must be moist. If necessary, pre-wet them sufficiently.

After use the packaging must be closed hermetically.

Specific notices

Do not mix with other substances.

Wear protective gloves and eye glasses during application.

Preparation of substrates

- The substrate should be moist, and free from dust, oil and grease.
- Widen the cracks in V-shape.
- Clean the concrete surface approx. 5 cm on both sides of the cracks or areas to be injected with a steel brush or with a grinding disc. Blowing out the cracks with dry compressed air will provide good conditions.
- Drill holes in a diameter of 12 mm at a distance of 15 – 20 cm and approx. 5 cm far from the cracks or concerned area.
- Install the screw packers **weber.sys Schraubpacker** (75 x 12 mm or 115 x 12mm) into the boreholes.
- Close the cracks between the injection packers with the 2-comp. epoxy glue **weber.rep 766** or with the quick-setting cement **weber.rep 760**. Wait until it is cured completely before injection in order to avoid loss of the injection material through extrusion.

Working instructions

- **weber.tec 944** is injected into the gaps and cracks through the screw injection packers with an appropriate injection pump at a pressure of 10 to 200 bars (depending upon the type of pump and the compressive strength of the substrate).
- Press the injection resin via the pump through the injection packers. Pay attention that the injection pressure must be unchanged from one packer to the next one. Under steady pressure proceed to the next injection nipple and repeat the injection process.

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- In case of vertical surfaces start injection process from the bottom. Valves of all packers above the one used must be opened.
- Remove packers after complete reaction of resin.
- The parts of the pump must be cleaned carefully with the thinner **weber.sys 992** at the latest 1 or 2 hours upon completion of the operations.

Use of accelerator

- The use of the accelerator **weber.tec 944 S** is required in case of injection in a water-containing area.
- Even with an admixture of only 0.5 % by weight, the accelerator is capable of doubling the reaction velocity of **weber.tec 944**, which depends on the water amount in the cracks and on temperatures. The foam volume will be increased. The accelerator can be mixed with **weber.tec 944** at a ratio of approx. 0.5 to 5 %. The mixed material must then be used immediately.

Consumption

Approx. 200 g of **weber.tec 944** per litre for joint or cavity space.

Practical information

Color grey-yellowish

Tools screw packers, mechanical pump or manual pump

Drying time approx. 48 hours

Storage the product can be stored dry and in original sealed packing for at least 6 months. Protect the material against humidity and keep the container hermetically sealed. Store away from food and drink. Partial crystallization of the injection resin is possible at temperatures below 0 °C. Upon slight heating, the crystals will dissolve again and further use will be possible without problems.

The accelerator **weber.tec 944 S** is supplied in tins of 0.1 kg (net weight). The product can be stored dry and in original sealed packing for at least 6 months.

Packaging	Sales unit	Number per wrapped euro-pallet
Tin	1 kg	12 tins / box
Bucket	5 kg	45 buckets

Legal notes

The correct and hence successful application of our products is not within our control. A guarantee can therefore only be accepted for the quality of our products within the framework of our sale and supply conditions but not for their successful use.

Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging.

This data sheet supersedes all earlier technical data on this product. Information supplied by our employees and/or distributors going beyond the scope of this data sheet must be confirmed in writing.

We reserve the right to make changes representing technical progress.

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