

weber.tec 944

Injection PU resin

Quick-curing 1-comp. injection polyurethane resin for sealing cavities and cracks in concrete and masonry

Fields of application

For sealing of cavities and cracks by injection through drilled boreholes into concrete and masonry in basements walls, foundations, water tanks, sewage treatment plants, quay walls, shafts, etc. Especially suitable for damp and wet areas.
For use indoors and outdoors.

Description

weber.tec 944 is a coloured, moisture-curing, solvent-free, 1-component injection resin based on polyurethane resin.

Composition

Water-reactive polyurethane resin

Main features

- expands up to 10 times of its basic volume
- resistant to seawater, salts, petrol, oils
- waterproof
- closes cavities, cracks and pores
- high chemical resistance
- rapid curing
- for use indoors and outdoors

Technical values

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

Quality control

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

General notes

- Limits of use: do not use **weber.tec 944** as cross-sectional waterproofing against capillary rising damp in masonry walls; in this case we recommend the use of the silicone micro-emulsion **weber.tec 940 E** or the silane-based injection cream **weber.tec 946**, acting as horizontal damp-proof barriers.
 - Injection areas must be moist; if necessary, pre-wet sufficiently.
 - **weber.tec 944** will not provide any mechanical bonding; for this purpose use the injection epoxy resin **weber.tec 945**.
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Special notes

- Do not add any foreign substances during mixing and application.
 - Wear safety glasses and gloves during processing.
 - Post-injections may be necessary.
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Substrate preparation

- The substrate must 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 a diamond disc.
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- Depending on the crack depth and the amount of moisture, drill holes in a diameter of 12 mm at a distance of 15 - 30 cm.
- Blow out boreholes with oil-free compressed air.
- Place high-pressure packers like the screw packers **weber.sys Schraubpacker** (75 x 12 mm or 115 x 12 mm) or the drive-in packers **weber.sys Schlagpacker** into the boreholes.
- Close the cracks between the injection packers with the epoxy resin mortar **weber.rep 766** or the extremely quick-setting cement **weber.rep 760**.
- Wait until full hardening of the pre-said products before injection works begin.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Injection method/crack closing

- **weber.tec 944** is injected into the gaps and cracks through the packers with an appropriate injection pump at a pressure of 10 - 200 bar, depending upon the type of pump and the compressive strength of the substrate.
- Pay attention that the injection pressure must remain unchanged from one packer to the next one. Under steady pressure proceed to the next injection nipple and repeat the injection process.
- Knock off the packers after complete reaction of resin.
- At the latest 1 hour after works completion, clean tools and conveying parts with the thinner **weber.sys 992**.

Use of accelerator

- In case of injection in water-containing areas the use of the accelerator **weber.tec 944 S** is required.
- Mix 0.5% - 5% of the accelerator by weight with **weber.tec 944**; the mixed material must be used immediately.
- The reaction speed (foam volume) depends on water quantity and temperature.

Practical information

Colours:
greyish yellow

Tools:
Mechanical or manual injection pump, screw packers **weber.sys Schraubpacker** (75 x 12 mm or

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115 x 12 mm) or drive-in packers **weber.sys Schlagpacker**; for preparation works: steel brush or diamond disc.

Storage:

The product can be stored at least 6 months in its original unopened packaging, if kept dry and frost-free.

Consumption / yield

approx. 0.2 kg/dm³

Packagings

Type	Sales unit	Number / euro-pallet
Can	1 kg	12 cans / cardboard
Bucket	5 kg	45 buckets

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.