

Rofaplast[®] PUR INJECTION RESIN



Article No. 0946

Solvent-free, single component polyurethane prepolymer on a diphenyl methane diisocyanate base.

Product properties:

Rofaplast PUR Injection Resin is a single component system on a polyurethane base. Because of its low viscosity formulation, the resin has excellent penetration properties. This allows the material to flow into hollow spaces where it slowly reacts with water and hardens, effectively sealing off hollow cavities.

System Constituents:

- Rofaplast PUR Injection Resin Art.Nr. 0946
- Accelerator for Rofaplast PUR Injection Resin Art.Nr. 0947

Range of use:

It is to be used for sealing water inrush in civil engineering. It is used for displacing water and subsequently sealing cracks running water and damp, porous areas in concrete and masonry.

Characteristic data of the product:

Density (DIN 53217):	1.11 g/cm ³
Viscosity:	860 mPas
Flash point (DIN 51584):	> 200°C
Reaction time with water:	approx. 1.5 hrs

After reacting with water, a thermosetting plastic (polyurethane foam) is formed.

Substrate:

Clean the run of the crack. Drill holes for placing the filler sockets along both sides of the run of the crack, staggered and in intervals half the thickness of the building element at an angle of 45°. Borehole depth should be at least 70% of the building element thickness, borehole diameter should correspond to the packers or filler sockets used. Insert the packers and fix in place.

Working instructions:

The cracks, joints or hollow cavities to be sealed must contain moisture. It may be necessary to inject water first. Before removing material from the container, stir the contents well. The material is injected with an injection pump that has a pressure gauge and adjustable pressure.

Injection direction on vertical surfaces: From the bottom to the top. The next higher packer serves as a pressure release and as a control opening. On horizontal surfaces, the procedure is carried out in the same manner.

After the injection resin has hardened, remove the packers and close the boreholes with Viscacid Epoxy Repair Mortar (Art.Nr. 0943).

For special applications such as strong running water, reaction time can be reduced by using an accelerator for Rofaplast PUR Injection Resin, Art. Nr. 0947.

Reaction time with a 1% addition is approx. 60 seconds.

Working temperature:

The ambient temperature and that of the substrate should not fall below +8°C. Hardening is accelerated at higher temperatures and delayed at lower temperatures.

Technical notes:

When filling large-volume hollow cavities, the 5-10 time volume increase of the injection material (dependent on temperature and moisture) should be taken into consideration.

With corresponding pressure, a bursting effect and under circumstances cracks and spalling may occur which will have to be repaired afterward.

Tools and cleaning:

Injection equipment, hand-lever press, percussion drill for mounting packers.

Clean tools and any splashes immediately while fresh with V 101 thinner. Wear protective gloves.

Packaging, application rate and storing:

Packaging: 1 kg and 5 kg containers

Application rate: 1.1 kg / litre cavity volume.

Shelf-life: At least 6 months in closed, original containers stored cool but frost-free.

Safety, ecology, disposal:

Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet.

GISCODE: PU 40

The statements above are compiled from our field of production and according to the latest technological developments and application techniques. Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet.

Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid.

With the publication of this Technical Information Sheet all previous editions are no longer valid.