

isolera INJECTION RESIN I 400

Usable as foam and elastic solid resin

Characteristics

isolera Injection Resin I 400 is a two-component, water-reactive, phthalate-free, foaming and elastic injection resin. On contact with water, the material reacts and forms a fine-cell elastic foam; if no water is present, isolera Injection Resin-I 400 reacts to form an elastic solid resin.

Scope of application:

isolera injection resin I 400 is used for the sealing injection of cracks, joints, crevices and fissures in civil engineering. Typical areas of application are e.g. tunnel construction, mining and special civil engineering. In addition, isolera injection resin I 400 can be used for grouting injection hoses.

Technical specifications:

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| Basis: | Polyurethane with special isocyanates |
| Colour: | A-component / transparent B- component / brown |
| Working temperature: | from +5 °C |
| Density: | ca. 1,12 g / ml (+25°C) |
| Viscosity: | ca. 210 mPa s (+25°C) |
| Mixing ratio: | 1:1 Weight parts |
| Processing time / pot life: | approx. 60 minutes (1 litre at +20 °C) |
| Reaction time with water: | approx. 30 seconds |
| Setting time with water: | approx. 2 minutes (foam) |
| Consumption: | depending on cavity occurrence |

Delivery form:

Comp. A 0.5 kg tin canister
Comp. B 0.5 kg tin canister
= 1 kg container

Storage life:

6 months (frost-free and dry in original container)

Processing

Preparation of the substrate:

Before starting work, an analysis must be carried out on the object. To determine the injection material to be used, the moisture condition and the crack characteristics must be recorded. Based on the analysis, isolera injection packers are to be placed at an angle (45 °) following the course of the crack. The diameter of the boreholes depends on the diameter of the injection packers to be used. The packers must be firmly mounted so that they do not loosen even at high injection pressures.

Material:

isolera Injection Resin I 400 can be used with IC injection equipment. The material (A+B) is mixed in the specified mixing ratio and then poured into the injection device (funnel). The injection is usually carried out under an initial pressure of 20 bar for concrete and 10 bar for masonry. Depending on the situation, the injection pressure can increase. The mixed material is to be injected within the specified working time / pot life. To completely fill the cracks and cavities, inject until a material leakage can be detected at the adjacent packer or in the crack. We recommend to carry out a subsequent grouting within the working time / pot life using the same injection packer. After complete curing of isolera injection resin I 400, the boreholes are sealed with isolera multi-mortar. Depending on the occurrence of cavities, the specified material quantities may change. Changes in temperature alter the reaction properties of the material.

Cleaning:

Clean tools and equipment immediately after application with isolera PUR Cleaner. Cured residues can only be removed mechanically.

Comments:

The information provided corresponds to the current state of development. They do not claim to be complete. A professional and thus successful processing of the products is not subject to our control. Therefore, a guarantee can only be given for the quality of the products, but not for the processing. It is up to the user to determine the suitability of our products for his purpose. Preliminary tests are recommended.



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