

- Industry classification "KB-Pur" registered at the German patent office, 395 06 701

Elastic 2 component polyurethane injection resin

Features

KÖSTER KB-Pur® IN 2 is a solvent-free, 2 component polyurethane injection resin for crack injection. It is permanently elastic and thus allows a permanent crack and joint sealing even in case of movement of the crack.

KÖSTER KB-Pur® IN 2 is tested according to KTW-recommendations and can thus be used for applications in drinking water environments.

Technical data

Mixing ratio	by volume	Component A : B	2 : 1
	by weight	Component A : B	5 : 3
Viscosity (A + B component)			approx. 200 mPa.s
Pot life (20 °C, 1 l mixture)			30 min
Shore-hardness D / DIN 53505			25 – 35
Application temperature			above + 5 °C
Density (of the mixture)			approx. 1.1 kg / l

Field of application

The material can be used in combination with KÖSTER KB-Pur® IN 1 for the permanent, elastic sealing of water bearing cracks and joints in concrete, screeds, masonry etc. as well as for solidifying granular soils.

It can be used without the pre-injection of KÖSTER KB-Pur® IN 1 for sealing dry cracks, joints and voids. KÖSTER KB-Pur® IN 2 is used in cases where future movements of the building structure cannot be excluded. KÖSTER KB-Pur® IN 2 is also suited for slightly moist cracks.

Mixing

The A and the B component are recommended to be mixed at 20°C in the above stated mixing ratio using a slowly rotating electrical mixer preferably equipped with a KÖSTER Resin Stirrer. The material must be mixed until it is streak free and homogeneous in appearance.

Application

Water flow in water bearing cracks, joints and voids are first stopped and dried through the injection of KÖSTER KB-Pur® IN 1. The ready mixed material must be used within the given pot life.

The mixture can be applied using conventional single component injection pumps such as the electrical KÖSTER 1C Injection Pump. Prior to the injection, the cracks can be sealed using KÖSTER KB-Fix 5. Holes are drilled on alternating sides along the course of the crack at an interval of approx. 10 – 15 cm. Injection packers are inserted into the holes and (when possible) injected from bottom to top. The diameter of the drill holes depends on the injection packers chosen. After the removal of the injection packers, the drill holes can be sealed with KÖSTER KB-Fix 5.

Consumption

Approx. 1.1 kg / l void

Cleaning of tools

Clean tools immediately after use with KÖSTER KB-Pur® Cleaner.

Packaging

40 kg, 8 kg and 1 kg combi packages

Storage

Store the material at temperatures between + 10° and + 30 °C. In originally sealed packages, the material can be stored for 12 months.

Safety

Wear protective gloves and goggles when processing the material. When carrying out injection work, make sure to protect the surrounding work area from injection resin that may be discharged from the wall, packers, drill holes, etc. Do not stand directly behind the packers during injection.

Technical guidelines cited

KÖSTER KB-Fix 5	Art. No.	5.015
KÖSTER KB-Pur® IN 1	Art. No.	6.13
KÖSTER KB-Pur® Cleaner	Art. No.	9.10
KÖSTER 1C Injection Pump	Art. No.	12.072
KÖSTER Resin Stirrer	Art. No.	12.088

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.