

KÖSTER KB-Pur[®] IN 3

Technical guideline / Article number **6.15**

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- Industry classification "KB-Pur" registered at the German patent office, 395 06 701.4
- Official test certificate, Fachhochschule Ostfriesland (Technical College) – Properties of the resin

2 component polyurethane injection resin for structural rebonding

Features

KÖSTER KB-Pur[®] IN 3 is a solvent free, 2 component polyurethane injection resin for crack injection. Due to its high compressive and adhesive tensile strength, KÖSTER KB-Pur[®] IN 3 permanently seals and bridges cracks and joints where structural rebonding is required.

Technical data

Mixing ratio	by volume	Component A : B	2 : 1
	by weight	Component A : B	5 : 3
Pot life (20 °C, 1 l mixture) (DIN EN 1504-5)			40 min
Application temperature			above + 5 °C
Viscosity (A + B component) (ISO 2555)		approx.	200 mPa.s
Density (of the mixture) (DIN 53479)			1.1 kg / l
Compressive strength			> 80 N / mm ²
Adhesive tensile strength (Concrete)			> 14 N / mm ²
Flexural tensile strength (after 7 d / 23 °C / 65 % rel. hum.)		approx.	12 N / mm ²

Field of application

The material can be used in combination with KÖSTER KB-Pur[®] IN 1 for the permanent sealing, bridging, and structural rebonding of dry and water bearing cracks and joints in concrete, screeds, masonry etc. as well as for solidifying granular soils. It can be used without pre-injection of KÖSTER KB-Pur[®] IN 1 for closing dry cracks, joints and voids. KÖSTER KB-Pur[®] IN 3 is used in cases where crack flanks or unequal structural members have to be bonded together and achieve structural stability.

Mixing

The A and the B component are recommended to be mixed at 20°C in the given 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 and consistency.

Application

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 boreholes can be closed 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

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 precautions

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.