

KÖSTER KB-Pur[®] IN 2 Injection Resin HT

Technical guideline / Article number **6.141**
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- Industry classification "KB-Pur" registered at the German patent office, 395 06 701

Elastic 2 component polyurethane injection resin suited for application in high temperature climatic conditions

Features

KÖSTER KB-Pur[®] IN 2 HT is a solvent-free, 2 component polyurethane injection resin for crack injection. It is permanently elastic and allows thus a permanent crack and joint sealing even in case of movement of the crack. The pot life of this injection resin has been adjusted so that it is suited for use in high temperature climatic conditions. KÖSTER KB-Pur[®] IN 2 HT 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
Shore-hardness D / DIN 53505			25 – 35
Application temperature			above + 5 °C
Density (of the mixture)			approx. 1.1 kg / l

Temperature [°C]	20	30	40
Pot life [min]	< 120	< 100	< 80

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 pre-injections of KÖSTER KB-Pur[®] IN 1 for closing dry cracks, joints and voids. KÖSTER KB-Pur[®] IN 2 HT is used in cases where future movements of the building structure can not be excluded. Also suited for slightly moist cracks. KÖSTER KB-Pur[®] IN 2 HT is intended for use in high temperature climatic conditions.

Mixing

The A and the B component are recommended to be mixed 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 bearing cracks, joints and voids are dried up through injections of KÖSTER KB-Pur[®] IN 1. The placement of the

injection packers depends on the course of the crack. The boreholes are best placed on alternating sides of the crack at a distance of approx. 10 to 15 cm of each other at an angle of 45 ° to the surface of the structural member. The diameter of the boreholes depends on the injection packers chosen. All customary resin injection systems are suited. Wide cracks are closed prior to the injection with KÖSTER KB-Fix 5. The injection is carried out using customary injection devices, e. g. the KÖSTER 1C Injection Pump, from bottom to top. 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

Immediately after use with KÖSTER KB-Pur[®] Cleaner. Reacted material can be treated with KÖSTER KB-Pur[®] Remover.

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 approx. 12 month.

Safety

Wear protective gloves and goggles when processing the material. When carrying out injection works, make sure to protect the surroundings from injection resin that may be discharged from the wall, packers, boreholes etc. due to the pressurized mode of injection or accidentally. 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 KB-Pur [®] Remover	Art. No.	9.11
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.