

KÖSTER

KB-Pur[®] IN 3 HT

Technical guideline / Article number **6.151**

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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 bridging cracks where structural strength is required in high temperature climates

Features

KÖSTER KB-Pur[®] IN 3 HT is a solvent-free, thin fluid, 2 component polyurethane injection resin for crack injection. Due to its high compressive and adhesive tensile strength, KÖSTER KB-Pur[®] IN 3 HT is used for permanent, force-transmitting sealing of cracks and joints. The pot life of this injection resin has been adjusted so that it is suited for use in high temperature climatic conditions.

Technical data

Mixing ratio	by volume	Component A : B	2 : 1
	by weight	Component A : B	5 : 3
Application temperature			above + 5 °C
Viscosity (A + B component)			approx. 200 mPa.s
Density (of the mixture)			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

Temperature [°C]	20	25	30	40
Pot life [min]	< 120	< 90	< 80	< 60

Field of application

The material can be used in combination with KÖSTER KB-Pur[®] IN 1 for the permanent, force-transmitting 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 3 HT is used in cases where cracks have to be bridged where structural strength is required between the flanks of a crack or between different structural members. KÖSTER KB-Pur[®] IN 3 HT is suited for use in high temperature climatic conditions

Application

Water bearing cracks, joints and voids are dried up through preceding 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 20 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. Prior to the injection, the crack is closed with KÖSTER KB-Fix 5. The two components of KÖSTER KB-Pur[®] IN 3 HT are mixed thoroughly using a slowly rotating stirring device. To avoid defects due to insufficient mixing, repot the material and mix it again.

The injection is carried out using customary injection devices, e. g. hand lever presses, 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

8 kg and 1 kg combi packages

Storage

In tightly sealed packages at temperatures between 10 and 30 °C, the material can be stored for approx. 12 month.

Safety

Wear protective gloves and goggles.

Technical guidelines cited

KÖSTER KB-Fix 5	Art. Nr.	5.015
KÖSTER KB-Pur [®] IN 1 Injection Foam	Art. Nr.	6.13
KÖSTER KB-Pur [®] Cleaner	Art. Nr.	9.10
KÖSTER KB-Pur [®] Remover	Art. Nr.	9.11

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