

KÖSTER

KB-Pur[®] IN 5 Injection Resin

Technical guideline / Article number **6.17**

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

Elastic, 2 component polyurethane injection resin for crack- and hose-injection

Features

KÖSTER KB-Pur[®] IN 5 is a solvent-free, low viscous, 2 component polyurethane for elastic closing, filling and sealing of cracks and construction joints.

KÖSTER KB-Pur[®] IN 5 acts passively when coming into contact with steel or iron, so that a corrosion protection is achieved. Due to its slow reaction, the material can be processed for up to 4 hours.

Technical data

Mixing ratio	by volume	Comp. A : B	1 : 1
	by weight	Comp. A : B	1 : 1.1
Viscosity (25 °C)		Comp. A	approx. 65 mPa.s
		Comp. B	approx. 90 mPa.s
Flashpoint			> 200 °C
Pot life (20 °C)			approx. 4 hours
Application temperature			above + 5 °C

Field of application

The material is intended to be used for pressure injection of construction joints via injection hoses. It can also be used for permanent, elastic sealing of dry, moist and water-bearing cracks and joints in concrete, screeds etc. as well as for solidifying granular soils.

Application

Crack injection

First, water leakages are stopped 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 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. All customary resin injection systems are suited. Prior to the injection, the crack is closed with KÖSTER KB-Fix 5. The two components of KÖSTER KB-Pur[®] IN 5 are mixed

thoroughly using a slowly rotating stirring device. To avoid defects due to insufficient mixing, replot the material and mix it again.

The injection is carried out using customary injection devices, e. g. hand lever presses, from bottom to top along the course of the crack. When using a single-component injection pump, an addition of moisture to the injection material during the application must be absolutely avoided. In cases of moist cracks and joints, material is injected until air-bubble-free material leaks from adjacent packers. A subsequent injection of KÖSTER KB-Pur[®] IN 5 within the pot life of the material is possible.

After the removal of the injection packers, the boreholes can be closed with KÖSTER KB-Fix 5.

Hose injection

The injection hoses are layed in the middle of the wall in sections of approx. 10 to 15 m. The minimum concrete cover must be 8 to 10 cm. The injection hoses must be in continuous contact with the concrete substrate. The sealing caps of the holder boxes must be flush with the surface of the formwork and remain accessible. The injection of the hoses should take place at the earliest after the concrete has reached its 28-day-resistance.

The injection is carried out using customary low pressure injection systems in conjunction with suited injection ports (packers). When using a single component pump, an addition of moisture to the injection material during the application must be absolutely avoided.

First, the injection hose is filled until the material comes out of the respective deairing end. Then that end of the hose is closed and material is injected until the gauge pressure on the injection device remains constant.

Subsequent injections with KÖSTER KB-Pur[®] IN 5 can only be done within the pot life of the material.

Consumption

Approx. 1.1 kg / l void

The accurate and thereby effective and successful application of our products is not subject to our control. The guarantee can therefore only be applied to the quality of our products within the scope of our terms and conditions, not, however, for their effective and successful application. These guidelines replace all previous ones.

Cleaning of tools

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

Packaging

10 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 I 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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