

KÖSTER

KB-Pur[®] IN 7

Technical guideline / Article number **6.19**

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

Single component viscoplastic PU-injection foam for the single injection sealing of water-bearing cracks and joints

Features

KÖSTER KB-Pur[®] IN 7 is a single component polyurethane prepolymer used with 10 % catalyst. The product reacts when it comes into contact with water and forms a compact, viscoplastic waterproof polyurethane foam.

KÖSTER KB-Pur[®] IN 7 remains viscoplastic after reacting and is thus able to follow crack movements and to seal permanently without the necessity of subsequent injections with an elastic polyurethane massive resin.

KÖSTER KB-Pur[®] IN 7 is solvent-free and resistant to hydrolysis.

Technical data

Mix viscosity at 25°C	approx. 300 mPa.s
Volume expansion	max. 1:30
Density of the mixture at 20 °C	approx. 1.1 kg / l
Density of the fully cured foam	approx. 0.1 g / cm ³
Starting time	approx. 30 seconds
Expansion time	approx. 60 seconds
Non-sticky after	approx. 2 minutes
Mixing ratio (by weight)	10 : 1 (resin / A : catalyst / B)
Mixing ratio (by volume)	12 : 1 (resin / A : catalyst / B)
Pot life (without contact to water)	over 6 hours

Field of application

KÖSTER KB-Pur[®] IN 7 is intended for the single injection sealing of water bearing cracks in concrete and masonry using pressurized injection systems without necessitating subsequent injection with a solid body resin.

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.

Consumption

Approx. 0.1 kg / l void

Cleaning of tools

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

Packaging

27.5 kg, 5.5 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 6 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.	5.01
KÖSTER KB-Pur [®] Cleaner	Art. No.	9.10
KÖSTER 1C Injection Pump	Art. No.	12.072
KÖSTER Resin Stirrer	Art. No.	12.088

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