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IN - Injection systems

KÖSTER KB-Pox IN

- WZ "KB-POX" protected, German Patent Office, 395 06 702

Epoxy resin for crack injection and saturation for structural rebonding

0761	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 17 IN 231 EN 1504-5:2004 Concrete construction member injection material for structural filling of cracks, cavities, and defects in concrete U(F1)(W1)(1/2)(8/30)(1)
Bond strength	> 2.0 MPa
Volumetric shrinkage	< 3%
Viscosity	175 mPa·s
Glass transition temperature	> + 40 °C
Injectibility into dry medium	Injectability class: 0.1
Injectability into non-dry medium	Injectability class: 0.1
Durability (Compatability with	Coshesive failure in concrete
concrete)	
Corrosion behavior	No corrosive effect
Release of dangerous substances	Compliance with 5.4, EN 1504-5

Features

KÖSTER KB Pox IN is a solvent free, 2 component low viscous epoxy injection resin for crack injection. KÖSTER KB-Pox IN does not contain any fillers or softeners and thereby sedimentation is avoided. Due to its high rate of penetration into porous substrates and it's excellent adhesion to concrete, stone, masonry and metal, KÖSTER KB-Pox IN permanently seals and bridges cracks and joints and restores structural integrity. KÖSTER KB-Pox IN can be used in water saturated cracks.

Technical Data

Mixing ratio	3.14 : 1
- by weight	2.8 : 1
- by volume	
Pot life (+ 20 °C, 100 g mixture)	approx. 80 min.
(DIN EN 16945)	
Application temperature	above + 5 °C
Ideal application temperature	+ 15 °C
Mixed viscosity (ISO 2555)	approx. 170 mPa.s
Density of mixture (DIN 53479)	1.0 kg / l
Compressive strength (7 days)	> 80 N / mm ²
Adhesive tensile strength	
- dry standard concrete C 50/60	> 4 N / mm ²
 damp standard concrete C 50/60 	> 2 N / mm ²
Color	transparent

Fields of Application

KÖSTER KB-Pox IN is used without pre-injection for filling and closing dry, damp, and wet cracks, joints, and voids. KÖSTER KB-Pox IN is used in cases where crack flanks or unequal structural members have to be structurally bonded together.

Substrate

The substrate can be dry, damp or wet and must be free of loose particles, oils, grease, and other contaminants. Liquid water in the crack has to be displaced with KÖSTER KB-Pox IN during injection when present.

Application

The A and the B component must be mixed intensively 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. Re-pot the material and mix again to avoid mixing failures.

The placement of the injection packers depends on the width and course of the crack. We recommend using KÖSTER Superpackers. The drill holes are placed on alternating sides of the crack at a maximum distance of 15 cm. Fine cracks may require reduced spacing. Drill at an angle of approx. 45° towards the crack. To stop material from exiting the crack, the crack is sealed with KÖSTER KB-Fix 5 prior to injection. The injection is carried out using an appropriate injection device such as the electrical KÖSTER 1C Injection Pump. After the material has cured, remove the injection packers and close the drill holes with KÖSTER KB-Fix 5. The material can also be installed by pouring, (saturation).

Consumption

Approx. 1 kg / I void

Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner.

Packaging

5 5	
IN 231 001	1 kg combipackage
IN 231 006	6 kg combipackage

Storage

Store the material at temperatures between + 10 $^{\circ}$ C and + 30 $^{\circ}$ C; in originally sealed packages, the material can be stored for a period of 12 months.

Safety

Wear protective gloves and goggles. When carrying out injection work, make sure to protect the surroundings from injection resin that may be discharged from the wall, packers, drill holes, etc. Do not stand directly behind the packers during injection. Liquid polymers react to temperature fluctuations by changing their viscosity and/or curing behavior. The instructions given in the Technical Guidelines must be followed. Low temperatures will slow the reaction; high temperatures will increase the reaction rate. Mixing large volumes will also increase the reaction rate. For professional use only.

Related products KÖSTER KB-FIX 5

Prod. code C 515 015

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.

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KÖSTER Screed Anchor 6 mm x 70 mm	Prod. code CT 910
KÖSTER IN 1	Prod. code IN 110
KÖSTER IN 7	Prod. code IN 270
KÖSTER Superpacker 13 mm x 115 mm	Prod. code IN 915 001
СН	
KÖSTER One-Day-Site Packer 13 mm x	Prod. code IN 922 001
120 mm PH	
KÖSTER 1C Injection Pump	Prod. code IN 929 001
KÖSTER Hand Pump without manometer	Prod. code IN 953 001
KÖSTER Hand Pump with manometer	Prod. code IN 953 002
KÖSTER Footpump	Prod. code IN 958 001
KÖSTER Universal Cleaner	Prod. code X 910 010

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