KÖSTER
Waterproofing Systems

KÖSTER IN 2

Technical Data Sheet IN 220

Issued: 2021-04-22

- Test certificate K-25017-15-Ko according to the Guideline for Hygienic Assessment of Organic Coatings in Contact with Drinking Water, Hygiene-Institut des Ruhrgebiets

Elastic 2 component polyurethane injection resin

IN - Injection systems

Features
KÖSTER IN 2 is a solvent-free, 2 component polyurethane injection resin for crack injection. It is permanently elastic and thus allows a permanent crack and joint sealing even in case of movement of the crack.

Advantages
- Suitable for use in drinking water environment
- Suitable on dry and slightly moist cracks
-Forms an elastic solid body resin allowing movement of the structure while maintaining a watertight system

Technical Data

Mixing ratioComponent A : B	
by volume	2 : 1
by weight	5 : 3
Viscosity (A + B component)	approx. 200 mPa.s
Pot life (+ 20 °C, 1 l mixture)	30 min
Shore-hardness D / DIN 53505	25 – 35
Application temperature	above + 5 °C
Density (of the mixture)	approx. 1.1 kg / l

Fields of Application
The material can be used in combination with KÖSTER 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 the pre-injection of KÖSTER IN 1 for sealing dry cracks, joints and voids. KÖSTER IN 2 is used in cases where future movements of the building structure cannot be excluded. KÖSTER IN 2 is also suited for slightly moist cracks.

Application
Water flow in water bearing cracks, joints and voids are first stopped and dried through the injection of KÖSTER IN 1. The A and the B components of KÖSTER IN 2 are recommended to be mixed at + 15 °C 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. The injection is carried out with conventional injection devices such as the KÖSTER Hand Pump press or the KÖSTER 1C Injection Pump. After the removal of the injection packers, the drill holes can be sealed with KÖSTER KB-Fix 5.

Crack injection in walls and floors
The arrangement of the injection packers results from the course of the crack or from the construction element to be injected. The holes are placed alternately at a distance of approx. 10 - 20 cm, at an angle of approx. 45 ° to the component surface. The borehole diameter results from the choice of injection packer. Prior to the injection, the cracks can be sealed using KÖSTER KB-Fix 5. The wall area is injected with conventional injection devices such as the KÖSTER 1C Injection Pump once or more times from bottom to top (when possible).

Wall-Floor joint injection
The injection packers are placed following the course of the wall. If possible, the holes are set at a distance of approx. 10 - 15 cm, at an angle of approx. 45 ° to the component surface. The drilling channel should hit the floor slab slightly behind the center of the wall contact area. The borehole diameter results from the choice of injection packer. Prior to the injection, the cracks or joint can be sealed using KÖSTER KB-Fix 5. The injection is carried out with conventional injection devices such as the KÖSTER 1C Injection Pump once or more times.

Consumption
Approx. 1.1 kg/l void

Cleaning
Clean tools immediately after use with KÖSTER PUR Cleaner.

Packaging

IN 220 001	1 kg combipackage
IN 220 008	8 kg combipackage
IN 220 040	40 kg combipackage

Storage
Store the material at temperatures between + 10 °C and + 30 °C. In originally sealed packages, the material can be stored for 12 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.

Other
- Due to water displacements, reinjections may be necessary to address localized areas.
- KÖSTER IN 2 is not suitable for wide moving joints with considerably high dynamic movements.

Related products

KÖSTER KB-Fix 5	Prod. code C 515 015
KÖSTER IN 1	Prod. code IN 110
KÖSTER PUR Cleaner	Prod. code IN 900 010
KÖSTER Impact Packer 12 mm x 70 mm	Prod. code IN 903 001
KÖSTER Lamella Impact Packer	Prod. code IN 909 001
KÖSTER Superpacker 13 mm x 115 mm CH	Prod. code IN 915 001
KÖSTER One-Day-Site Packer 13 mm x 120 mm PH	Prod. code IN 922 001
KÖSTER 1C Injection Pump	Prod. code IN 929 001
KÖSTER Injection Gun	Prod. code IN 929 016
KÖSTER Hand Pump without manometer	Prod. code IN 953 001
KÖSTER Hand Pump with manometer	Prod. code IN 953 002

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu