KÖSTER
Waterproofing Systems

KÖSTER IN 8

Technical Data Sheet IN 271

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IN - Injection systems

Water-reactive, viscoelastic 1C PU injection foam for single and multiple step waterproofing of water-bearing cracks and joints

Features
KÖSTER IN 8 is a water-reactive polyurethane prepolymer. The product only reacts in contact with water and then spontaneously forms a firm, tough, elastic, waterproof polyurethane foam. Contact with water is required for curing and foaming reaction.

After the reaction, KÖSTER IN 8 remains viscoelastic and is therefore able to follow crack movements and to permanently waterproof without an elastic solid polyurethane resin re-injection. KÖSTER IN 8 is hydrolysis-resistant.

KÖSTER IN 8 can be accelerated by adding max. 10 % by weight of KÖSTER IN 8 Accelerator. The time until the material is tack-free is then only approx. 2.5 minutes.

Advantages
- The fast foaming effect stops water in seconds
- Very high expansion volume, up to 30 times
- Long pot life
- Resistant to hydrolysis and acid
- The material remains viscoelastic and is therefore able to follow crack movements
- Injectable on moist and water-bearing cracks
- Free of solvents and fillers

Technical Data

Viscosity at + 25 °C	approx. 160 mPa·s
Volume increase	max. 1 : 30
Flash point	> +100 °C
Ideal installation temperature	+ 15 °C
Density of mixture at + 20 °C	approx. 1.1 kg / l
Density of reacted foam	approx. 0.1 g / cm^3
Start of reaction	approx. 30 seconds
Reaction time	approx. 3 minutes
Non-tacky after	approx. 3,5 a 4 minutes
Reaction time (with accelerator)	approx. 2 minutes
Non-tacky after (with accelerator)	approx. 2.5 minutes

Fields of Application
For one-step and multiple step waterproofing of water-bearing cracks in concrete and masonry using the pressure injection method without reinjection with a solid resin. As a sealing injection in concrete and masonry.
- Stopping fast large water leakages with foaming action
- Waterproofing horizontal and vertical cracks
- Capable of filling voids
- Sealing wall-floor joints
- Create a flexible bond

Application
KÖSTER IN 8 is a 1 component material ready to use and can be processed with conventional one-component injection devices such as the KÖSTER 1C injection pump.

Before the injection, the cracks to be worked on are sealed with KÖSTER Injection Barrier. Along the course of the crack, holes are drilled alternately set at a distance of approx. 10-15 cm, the packers are installed, and (if possible) progressing from bottom to top, injected in one or several stages (at least two injection stages). The multi-stage injection is recommended in case of heavy water pressure. KÖSTER IN 8 does not require a reinjection with KÖSTER solid resins. The borehole diameter depends on the injection packers used. The drill holes can be closed with KÖSTER KB-Fix 5 after removing the injection packers.

If a faster reaction is required, a maximum of 10 % by weight of KÖSTER IN 8 Accelerator can be added to the KÖSTER IN 8. It reduces the reaction time by approx. 1 minute.

Consumption
Approx. 0.1 kg/l void

Cleaning
Clean immediately after use with KÖSTER PUR Cleaner. Hardened material must be mechanically removed.

Packaging

IN 271 005	5 kg jerrycan

Storage
In originally sealed containers the material can be stored for at least 6 months.
After partial removal and further storage, the containers must be closed immediately and turned "upside down" once to seal the closures from the inside.

Safety
Contains diisocyanate. When working with the material, work clothing that covers arms and legs or a protective suit must be worn. When working in confined spaces or in the "overhead area" hoods or covers must be worn. Wear suitable protective gloves (e.g., nitrile gloves) and protective goggles. When processing the material, pressure is created. Please do not stand directly behind Packer. 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. Obey all local, state, and federal safety regulations when processing the material.

Other
- KÖSTER IN 8 reacts with moisture. Avoid contact with rain, spashes, etc. at all costs. A skin can form in the material container of the injection pump due to the humidity. This skin should only be removed when the material hopper is refilled.
- Due to water displacements, reinjections may be necessary to address localized areas
- KÖSTER IN 8 is not suitable for wide moving joints with considerably high dynamic movements

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Related products

KÖSTER KB-Fix 5	Prod. code C 515 015
KÖSTER IN 8 Accelerator	Prod. code IN 272
KÖSTER Injection Barrier	Prod. code IN 501 025
KÖSTER PUR Cleaner	Prod. code IN 900
KÖSTER Impact Packer 12 mm x 70 mm	Prod. code IN 903 001
KÖSTER Lamella Impact Packer Adapter	Prod. code IN 908 001
KÖSTER Lamella Impact Packer	Prod. code IN 909 001
KÖSTER Superpacker 10 mm x 85 mm CH	Prod. code IN 912 001
KÖSTER Superpacker 10 mm x 115 mm CH	Prod. code IN 913 001
KÖSTER Packer 13 mm x 130 mm CH	Prod. code IN 913 002
KÖSTER Superpacker 13 mm x 130 mm CH	Prod. code IN 915 001
KÖSTER One-Day-Site Packer 13 mm x 90 mm CH	Prod. code IN 918 001
KÖSTER One-Day-Site Packer 13 mm x 120 mm CH	Prod. code IN 919 001
KÖSTER One-Day-Site Packer 13 mm x 90 mm PH	Prod. code IN 921 001
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 Gel Packer (Base)	Prod. code IN 931 001
KÖSTER Hand Pump without manometer	Prod. code IN 953 001
KÖSTER Hand Pump with manometer	Prod. code IN 953 002

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