



KÖSTER IN 8

Technical Data Sheet IN 271

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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 reaction can be accelerated by adding KÖSTER IN 8 Accelerator. The quantity of accelerator depends on the desired results. Please adhere to the technical data for further details.

Advantages

- The fast foaming effect stops water in seconds
- Very high expansion volume, up to 60 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

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|---|---------------------------------|
| Viscosity at + 25 °C | approx. 120 mPa·s |
| 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 |
| Pot life | approx. 30 - 40 min |
| Type of foam | * |
| Reaction KÖSTER IN 8 | |
| Start of reaction | approx. 30 sec |
| Full reaction time | approx. 240 sec |
| Tack-free | approx. 330 sec |
| Expansion volume | approx. 1 : 40 |
| Reaction temperature | approx. 38 °C |
| Reaction KÖSTER IN 8 + 10% accelerator | |
| Start of reaction | approx. 6 sec |
| Full reaction time | approx. 60sec |
| Tack-free | approx. 120 sec |
| Expansion volume | approx. 1 : 60 |
| Reaction temperature | approx. 43 °C |
| Reaction KÖSTER IN 8 + 20% accelerator | |
| Start of reaction | approx. 3 sec |
| Full reaction time | approx. 80 sec |
| Tack-free | approx. 120 sec |
| Expansion volume | approx. 1 : 60 |
| Reaction temperature | approx. 50 °C |

* Semi-flexible, closed cell, thick and robust homogenous structure

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 KB-Fix 5. 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 between 10 % and 20 % by weight of KÖSTER IN 8 Accelerator can be added to the KÖSTER IN 8. The accelerator speeds the initial reaction from approx. 30 seconds to approx. 3 or 6 seconds and the reaction time from approx. 240 seconds to approx. 60 or 80 seconds, depending on the percentage used.

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

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.

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, splashes, 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

Related products

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| KÖSTER KB-Fix 5 | Prod. code C 515 |
| KÖSTER IN 8 Accelerator | Prod. code IN 272 |
| 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 | Prod. code IN 912 001 |
| CH | |
| KÖSTER Superpacker 10 mm x 115 mm | Prod. code IN 913 001 |
| CH | |
| KÖSTER Packer 13 mm x 130 mm CH | Prod. code IN 913 002 |
| KÖSTER Superpacker 13 mm x 130 mm | Prod. code IN 915 001 |
| CH | |
| 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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