KÖSTER Waterproofing Systems

KÖSTER Micro Grout 1C

Technical Data Sheet IN 295 024

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IN - Injection systems

Non-shrinking injection grout for crack and void filling with high final compressive strength

Features
KÖSTER Micro Grout 1C is a high grade injection mortar with a high final compressive strength for injecting concrete and masonry. KÖSTER Micro Grout 1C does not form a sediment during it's pot life and does not require special devices for application such as a colloid mixer.

Technical Data

Grinding fineness (Blaine)	> 5500 cm^2 / g
Compressive strength (1d)	> 15 N / mm^2
Compressive strength (7d)	> 40 N / mm^2
Compressive strength (28d)	> 60 N / mm^2
Flexural strength (28d)	> 3 N / mm^2
E-Module	> 14000
Pot life	approx. 100 min.

Fields of Application
KÖSTER Micro Grout 1C can be used for the injection of cracks in masonry and concrete, also for use overhead, for grouting of rock, earth, and masonry anchors as well as for filling voids, joints, etc. It can also be used to solidify granular an/or sandy soils.

Substrate
The substrate must be clean, free of dust, grease, and other bond inhibiting contaminants. The load capacity has to correspond to the expected loads. Pre-wet the substrate before application.

Mixing
KÖSTER Micro Grout 1C is delivered ready for use and only requires mixing with water. Mix each bag with 7.5 to 8.5 liters of clean water. Add most of the water to a sufficiently large mixing vessel. Add the powder component slowly while constantly mixing with a screed or compulsory mixer. Mix to a homogenous, lump free consistency. Add the remaining water to achieve the desired consistency. The mixing time of 4 - 5 minutes must be observed.

Application
The grout can be injected using suitable injection pumps and packers, such as the KÖSTER Loka Handpump and the KÖSTER Impact Packer 18. For larger voids where no counterpressure builds up, the KÖSTER peristaltic pump can also be used. Injection ports are placed at a distance of approx. 10 cm from each other on alternating sides along the crack, or directly into voids as required.

Consumption
Approx. 1.6 kg / l void

Cleaning
Clean tools immediately after use with water.

Packaging
IN 295 024 24 kg bag

Storage
Store the material in a dry environment. In originally sealed packages, the material can be stored for a period of 6 months.

Safety
Wear protective gloves, goggles, and all Personal Protective Equipment required by governmental, state, and local regulations when processing the material. When carrying out injection works, make sure to protect the surroundings from injection resin that may be discharged from the wall, packers, boreholes, etc. due to the pressurized mode of injection or accidentally. Do not stand directly behind the packers during injection.

Related products

KÖSTER Loka Handpump	Prod. code IN 952 001
KÖSTER Peristaltic Pump	Prod. code W 978 001
KÖSTER Disc Stirrer	Prod. code X 996 001

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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