



KÖSTER Micro Grout 1C

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 sediment during its pot life and does not require special devices for application such as a colloid mixer. KÖSTER Micro Grout 1C has a liquefying effect at increasing injection pressures and shows no clogging in the injection area.

Technical Data

Grinding fineness (Blaine)	> 5100 cm ² / g
Fineness (d95)	approx. 40 µm
Max. aggregate size	under 0.1 mm
Compressive strength (1d)	> 25 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.
Minimum crack width	> 0,2 mm
Injection pressure	< 10 bar
Water consumption per bag	7.5 to 8.5 L

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 and/or sandy soils from crack widths of 0.2 mm. KÖSTER Micro Grout 1C is also suitable for closing the borehole or for filling cavities in the horizontal barriers KÖSTER Crisin 76, KÖSTER Mautrol Liquid Sealant, KÖSTER Mautrol 2C, and KÖSTER Mautrol Flex 2C.

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.

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 an electric double mixer 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.

Cracks must be at least 0.2 mm in size and flushed with water before starting the injection. The injection pressure is ideally below 10 bar. 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 is recommended. Alternatively, the BMP 7 (and other screw pumps) from b&m can be used. A 1/2 "hose with a length of 5 m is used for this with motor power 1st gear, speed 10%. 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 Lamella Impact Packer Adapter	Prod. code IN 908 001
KÖSTER Lamella Impact Packer	Prod. code IN 909 001
KÖSTER Gel Packer (Base)	Prod. code IN 931 001
KÖSTER Loka Handpump	Prod. code IN 952 001
KÖSTER Mautrol Liquid Sealant	Prod. code M 241
KÖSTER Mautrol 2C	Prod. code M 261
KÖSTER Mautrol Flex 2C	Prod. code M 262 020
KÖSTER Crisin 76	Prod. code M 279
KÖSTER Peristaltic Pump	Prod. code W 978 001

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 application 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.