

KÖSTER

Technical guideline / Article number

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Mautrol® Flex 2C

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2-component water-soluble injection liquid for subsequent installation of horizontal barriers

Features

KÖSTER Mautrol® Flex 2C is a two component, water-soluble injection liquid on silicate-acrylate basis. Due to the cross-linking property of the B-component, KÖSTER Mautrol® Flex 2C can also be applied in strongly moisture-penetrated structural members without the necessity of drying the structural member before or after the application. Steel reinforcements are not corroded by KÖSTER Mautrol® Flex 2C.

Technical data

Type of effect	narrowing of pores / hydrophobing of pore walls	
	Component A	Component B
Material base	Silicate/acrylate	Ester
Colour	Milky	transparent
Density components	1.03 g / cm ³	1.09 g / cm ³
Density mixture	1.07 g / cm ³	
Pot life	approx. 1.0 - 18 hours (depends on dilution)	
Mixing ratio (by weight)	1	1

Field of application

KÖSTER Mautrol® Flex 2C can be injected using low pressure injection systems in order to subsequently install horizontal barriers in masonry, concrete and plaster against rising and creeping damp. It can be applied from the inside and from the outside. It can not be used against pressurised water

Application

In order to install horizontal barriers, boreholes are drilled at a distance of approx. 10 – 15 cm from each other to a depth of 5 cm less than the thickness of the wall in one or two horizontal rows above ground or (in case of an excavation) above the base slab. The diameter of the boreholes depends on the diameter of the packers chosen. After cleaning out the boreholes using pressurised air, the packers are installed. If voids or similar faults are noticed in the structural member to be injected, a preceding injection with KÖSTER Mautrol® Borehole Suspension is recommended. The boreholes which were filled with KÖSTER Mautrol® Borehole Suspension are drilled open again after a

setting time of 30 minutes to 3 hours. The A-component is mixed with water depending on the moisture content of the masonry using the mixing ratios specified in the table below. Then the mixture is mixed with the B-component according to the table below.

The amount of dilution of the A-component depends on the moisture content of the masonry according to the following table:

Moisture content (by weight)	A-Comp. (by weight)	Water (by weight)	B-Comp. (by weight)	Gel time (20 °C)
0 – 5 %	1	10	1	18 hrs.
5 – 10 %	1	7	1	10 hrs.
10- 15 %	1	5	1	6 hrs.
> 15 %	1	4	1	4 hrs.

Attention: Never mix the components undiluted!

The mixture is injected using suited injection equipment (airless or piston pump) via packers until a complete saturation of the masonry is reached. This can be done by single injections or injection batteries. Subsequent injections are possible even after the end of the gel-time. After the injection, the packers are removed and the boreholes are closed with KÖSTER Mautrol® Borehole Suspension. A-component which is diluted with water can be stored for 2 month. Diluted material which has already been mixed with B-component, reacts within the gel-time stated above.

Consumption

Guide value: approx. 0.2 kg / m per cm wall thickness

Cleaning of tools

Clean tools immediately after use with water.

Packaging

Combi-package 20 kg

A-Component	10 kg canister
B-Component	10 kg canister

Storage

Store the material cool but frost-free; in originally sealed packages, it can be stored for approx. 1 year.

Safety

Wear protective gloves and goggles when processing the material. When carrying out injection works, make sure to protect the surroundings from injection material 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.

Technical guidelines cited

KÖSTER Mautrol® Borehole Suspension

Art.-No. 3.05

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.