



KÖSTER Mautrol Liquid Sealant

Technical Data Sheet M 241

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- Official certificate of inspection, AMPA, Hanover damp proofing
 Industry classification "MAUTROL" registered at the German patent office, K 50 862
 Capillary rods German patent Nr. 43 06 687

Silicifying liquid for waterproofing against rising damp

Features

KÖSTER Mautrol Liquid Sealant is a very thin, deeply penetrating silicifying liquid with hydrophobing effect. It effectively seals off rising damp. The material is injected via boreholes into the masonry. It spreads into the capillaries of the construction material and it reacts to form insoluble and water repellent compounds.

Besides the hydrophobing effect, KÖSTER Mautrol Liquid Sealant considerably strengthens and solidifies mineral construction members. KÖSTER Mautrol Liquid Sealant does not attack steel reinforcement.

The suction angle system allows for quick and safe waterproofing against rising damp. The system's most important feature is it's special adaptability to the specific requirements of the project at hand. Using the suction angle system,

- the depth of the drill hole is reduced.
- the actual required drill depth can be exactly calculated and adhered to.
- the horizontal barrier can be placed directly in the horizontal joint between the first and second row of bricks.
- the holes can all be drilled from one side, even in case of greater wall thicknesses.
- time and material are saved.

Technical Data

Viscosity approx. 80 mPa·s Type of effect narrowing of pores / hydrophobing of pore walls pH-value approx. 11 Density 1.16 g / cm³

Fields of Application

KÖSTER Mautrol Liquid Sealant is used to seal off rising damp in masonry up to a concentration of approx. 1 % (by mass) salt content and 50 % moisture content (equals approx. 5 - 8 % water contents by mass). KÖSTER Mautrol Liquid Sealant can be applied to all types of masonry except for those that contain loam mortars.

Application

KÖSTER Mautrol Liquid Sealant is applied using the following systems:

- KÖSTER Cartridge System for diagonally applied waterproofing
- KÖSTER Suction Angle System for horizontally applied waterproofing

The horizontal barrier is to be installed in such a way that it cannot be overflowed by groundwater, splash water, or another moisture ingress. The drilling holes (14 mm diameter) are usually placed horizontally in the lowest horizontal joint above ground level. In the basement, the horizontal barrier can be set above the basement floor, provided that the external waterproofing system completely covers the horizontal barrier from the outside.

Application as Cartridge System

Depending on the thickness of the wall, holes are drilled into the masonry at a distance of max. 12.5 cm from each other (see the table overleaf) with a diameter of 14 mm and at an angle of approx. 30° (to a depth of approx. 5 cm less than the thickness of the wall). The holes are flushed out with clean water or blown clear with pressurised air. If a subsequent horizontal barrier is to be installed in a lime-free substrate such as tuff or non-alkaline, old masonry - the boreholes are filled with lime water after cleaning.

Case 1: Masonry free of voids and cracks: After drilling the holes, the cartridges are put in place and left in the masonry until they are completely empty.

Case 2: Masonry free of voids, but cracked or very porous masonry: In the cleaned boreholes, KÖSTER Capillary Rods are inserted so that approximately the first 4 cm of the borehole are left clear. Then the KÖSTER Capillary Rods are saturated with clean water. After that, the cartridges are put in place and are left in the masonry until they are completely empty. The capillary rods can remain in the masonry after application of the material.

Case 3: Masonry with voids: The boreholes are filled with KÖSTER Micro grout 1C and are drilled open after a setting time of approximately 30 minutes up to a maximum of 3 hours. Then the cartridges are put in place and are left there until they are completely empty. After the waterproofing is done, the boreholes are closed with KÖSTER KR-Fiv 5

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Wall	diameter	Drill	Distance	Cartridge	Cartridge	Consump
thickness	of	holes	between	S	S	tion of
-	drill holes	per m	drill holes	per m	per drill	capillary
interior			(center		hole	rods
and			to center)			
exterior						
plaster						
	mm	unit	cm	unit	unit	unit per m
up to 10	14	8	12.5	8	1	2
cm						
up to 20	14	8	12.5	8	1	4
cm						
up to 30	14	8	12.5	8	1	5
cm						
up to 40	14	9	11.0	9	1	7
cm						
up to 50	14	11	9.0	11	1	11

Please note: For wall thicknesses above 24 cm we recommend the KÖSTER Suction Angle System

Application with the KÖSTER Suction Angle System (masonry with cracks and voids)

Drill horizontal holes (14 mm diameter) according to the table overleaf in the lowest horizontal joint with a depth of 5 cm less than the thickness of the masonry and clean the holes by flushing with

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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compressed air or briefly with water. The KÖSTER Capillary Rods are measured and cut at least 7 cm longer than the depth of the drill hole. Now insert the end of the capillary rod into the suction angle's supply tank and then push the capillary rod and the suction angle together into the drill hole so that the suction angle is securely stuck in the hole. (The suction angles are reusable.) Now fill the supply tank with water twice in short intervals in order to achieve a rapid swelling of the capillary rods. After about 15 minutes, place the KÖSTER Mautrol Liquid Sealant Cartridges in the suction angle's clamping device, so that a firm contact to the capillary rod is achieved. Assembly illustration: Remove the cartridges after approximately 12 - 48 hours (when completely empty). After the injection, the capillary rods can remain in the masonry. Protruding ends can be pulled out and cut off so that the drill holes can be closed with KÖSTER KB-Fix 5.

Wal thickned includ interi- and exteri	ess ing di or	iameter of rill holes	Drill holes per m	Distance between drill holes (center to center)	Cartridge s per m	Cartridge s per drill hole	Consump tion of capillary rods
plast	er						
		mm	unit	cm	unit	unit	unit per m
up to cm		14	8	12.5	8	1*	2
up to		14	8	12.5	8	1*	4
up to	30	14	8	12.5	8	1*	5
up to	40	14	8	12.5	8	1*	7
up to	50	14	10	10.0	10	1	11
up to	60	14	11	9.0	11	1	14
up to	70	14	13	7.5	13	1	20
up to	80	14	15	6.5	15	1	26

^{*} If necessary, proportionally less than one cartridge can be applied.

Please note

Due to the chemical consistency of KÖSTER Mautrol Liquid Sealant, it is possible that after full cure of the material visible discolourations (efflorescence) may occur which may not be removable.

Before further work begins, such as the application of a KÖSTER Restoration Plaster, the area underneath the horizontal barrier must be secured against the moisture trapped under the newly installed horizontal barrier with KÖSTER NB 1 Grey applied in two layers.

Consumption

Approx. 0.1 kg/m per cm wall thickness per m wall The consumption may vary according to the absorbency of the masonry.

Cleaning

Clean tools immediately after use with water.

Packaging

M 241 012 12 kg jerrycan

M 241 550 0.55 kg cartridge (28 cartridges per

carton)

Storage

Store the material cool but frost free. In originally sealed packages the material can be stored for a minimum of 2 years.

Safety

Wear protective gloves and goggles when processing the material. Observe all governmental, state, and local safety regulations when processing the material.

Related products

KÖSTER KB-Fix 5	Prod. code C 515 015
KÖSTER Micro Grout 1C	Prod. code IN 295 024
KÖSTER Polysil TG 500	Prod. code M 111
KÖSTER Fine Plaster	Prod. code M 655 025
KÖSTER Restoration Plaster Grey	Prod. code M 661 025
KÖSTER Restoration Plaster White	Prod. code M 662 025
KÖSTER Restoration Plaster White/Fast	Prod. code M 663
KÖSTER Restoration Plaster White/Light	Prod. code M 664 020
KÖSTER Suction Angle	Prod. code M 930 001
KÖSTER Capillary Rods	Prod. code M 963
KÖSTER NB 1 Grey	Prod. code W 221 025

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KÖSTER Mautrol Liquid Sealant 2/2