

Suction Angle System with KÖSTER Crisin® 76

System description

Issued: January 7, 2010

- Official certification report, AMPA, Hanover – damp proofing
- Industry classification "CRISIN" registered at the German patent office, K 50 862
- Capillary rods - German patent Nr. 43 06 687
- CRISIN 76 – German patent Nr. 195 45 879
- Official examination report, Ostfriesland Fachhochschule [Technical College]: Resistance against bacteria and mildew
- Official certification report, MFPA [Material Development and Testing Institute], Leipzig - in accordance with WTA guidelines 4-4-03

Self-dosing waterproofing against rising damp

Features

The suction angle system with KÖSTER Crisin® 76, a dissolved synthetic resin which remains flexible after curing and does not decay or decompose, allows for quick and safe waterproofing against rising damp.

The system's most important feature is its special adaptability to the specific requirements of the object at hand.

Using the suction angle system,

- the depth of the drill hole is reduced drastically.
- 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 materials are saved.

Technical Data

KÖSTER Crisin® 76:

Density	0.76 g / cm ³
Type of effect	astringent / hydrophobic
Viscosity	1.2 mPa·s (compared to water: 1 mPa·s)
Surface tension	Approx. 24 mN / m (compared to water: 73 mN/m)

Field of application

For waterproofing against rising damp in brickwork with continuous horizontal joints. Fissures or cavities do not compromise the functionality of the system.

A combination with the cartridge system (angled drill holes) is possible if this is practical and appropriate in certain parts, for example with wooden floorboard supports.

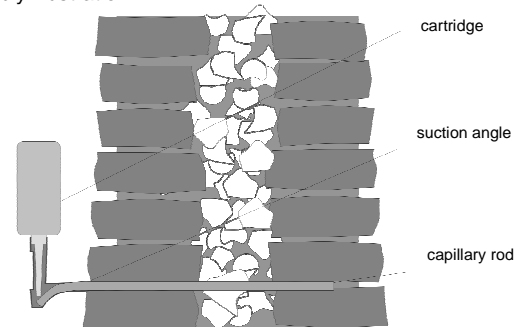
Application

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 compressed air or briefly with water.

The length of the capillary rods must be at least 7 cm longer than the depth of the drill hole. Measure and cut the capillary rods accordingly. 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 angle is 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 Crisin® 76 cartridge in the suction angle's clamping device, so that the supply tank fills up with KÖSTER Crisin® 76.

Assembly illustration:



Remove the cartridge after approximately 24-48 hours (when completely empty). In cases of high degrees of moisture penetration or in case of very dense building materials, it is possible that a longer exposure time may be necessary.

After applying 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 sealed with KÖSTER KB-Fix 5.

Storage

The material can be stored for approx. 12 months in sealed leak proof containers. Please follow the instructions for the storage of flammable liquids.

Packaging

KÖSTER Crisin® 76 Cartridge	450 ml cartridge = 28 units / carton
KÖSTER Suction Angle	individual delivery
KÖSTER Capillary Rods (48 cm)	50 units
KÖSTER Capillary Rods (96 cm)	50 units

Safety

Wear solvent-resistant protective gloves and safety goggles. Please follow the instructions for the storage of flammable liquids.

Please note

After the application of KÖSTER Crisin® 76, salts which are already present in the substrate can during the drying process

cause efflorescence and have damaging effects. We recommend the application of KÖSTER Polysil® TG 500 and the application of a fresh coat of a KÖSTER Restoration Plaster System.

If cement based systems such as sealing slurries or plasters are to be applied after KÖSTER Crisin® 76 has been applied, then this should be done at the earliest two weeks after the application of the horizontal barrier. If applied earlier, discolourations may occur due to migration of the KÖSTER Crisin® 76. In a few cases where KÖSTER Crisin® 76 in liquid form came into direct contact with bituminous building materials and specific plastics, it softened them.

Technical guidelines cited

KÖSTER Crisin® 76	Art.-No.	3.08
KÖSTER Polysil® TG 500	Art.-No.	4.011
KÖSTER KB-Fix 5	Art.-No.	5.015
KÖSTER Restoration Plaster Systems	Art.-No.	5.06
KÖSTER Capillary Rods	Art.-No.	11.06

Wall thickness including interior and exterior plaster	Ø drill holes	Drill holes per metre	Distance between drill holes from centre of the hole to centre of the hole (horizontal)	Cartridges per metre	Cartridges per drill hole	Consumption of capillary rods (48 cm)
	[mm]	[unit]	[cm]	[unit]	[unit]	[unit per m]
to 20 cm	14	8	12.5	8	1	4
to 30 cm	14	8	12.5	8	1	5
to 40 cm	14	8	12.5	8	1	7
to 50 cm	14	10	10.0	10	1	11
to 60 cm	14	11	9.0	11	1	14
to 70 cm	14	13	7.5	13	1	20
to 80 cm	14	15	6.5	15	1	26

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.