

## Cartridge system with KÖSTER Crisin® 76

### System description

Issued: September 15, 2008

- Official examination report, Ostfriesland Fachhochschule [Technical College]: Resistance against bacteria and mildew
- Test report according to WTA Guideline "Injection materials against rising damp
- Industry classification "CRISIN" registered at the German patent office, K 50 864

## Self dosing waterproofing against rising damp, also suitable in cases of heavy moisture penetration and salt contamination

### Features

KÖSTER Crisin® 76 is a very thin fluid synthetic resin. It penetrates deeply into even the smallest capillaries and pores in building materials. Due to its very low density and a surface tension that is less than that of water, KÖSTER Crisin® 76 pushes water out of the capillaries.

Capillaries treated in this way are lined by the substance and become water repellent. The curing of the injected product is independent of the drying of the masonry.

After its full cure, KÖSTER Crisin® 76 remains flexible, does not decay or decompose, acts neutrally, does not effloresce and does not affect steel reinforcement. KÖSTER Crisin® 76 is resistant to all of the usual aggressive masonry corrosives, such as acids, bases and salts, both during application and after full cure.

### Technical Data

Density	0.76 g / cm <sup>3</sup>
Type of effect	narrowing of pores / hydrophobing of pore walls
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

Drill hole injection for creating subsequent horizontal waterproofing against rising damp in all mineral building materials.

Can be applied from inside and/or outside.

Can be applied in cases of high degrees of moisture penetration and with all degrees of salt contamination.

The KÖSTER Crisin® 76 cartridge system is recommended especially for waterproofing jobs in which efficient protection of adjacent components against damp can only be achieved by way of drilling angled holes, for example, with wooden floorboard supports.

### Application

1. Drill the required number of holes according to the table overleaf. The holes should be cleaned with compressed air, an industrial vacuum cleaner or, if necessary, be briefly flushed out with water. Holes should be drilled at an approximate 40° downward angle until approximately 5 cm before the end of the

masonry. At least one horizontal joint should be traversed. The application can be carried out from the inside or the outside. If wall thickness is greater than 50 cm, it is recommended to drill holes from both sides to the middle.

2. After the drill holes have been cleaned, the KÖSTER Capillary Rods are inserted into the drill holes. Through this, prior filling of cavities, fissures and joints utilizing suspensions is usually not necessary. Put in the capillary rods so that approximately the first 4 cm of the drill hole are left clear. In this space, the cartridge will later be placed. The capillary rods saturated with KÖSTER Crisin® 76 can remain in the drill holes once the application is completed. In case the prior filling of the masonry should be necessary, the cavities are to be filled with KÖSTER Mautrol® Borehole Suspension prepared according to the respective technical guideline. Before full cure (after approximately 30 minutes up to a maximum of 3 hours) the holes are drilled out again.

3. Then put the KÖSTER Crisin® 76 cartridges in the drill holes and leave them there until they are completely empty. Do not apply in temperatures below 0 °C, apply only as long as the masonry is not frozen.

4. After emptying (approximately 3 - 48 hours) remove the cartridges. In cases of high degrees of moisture penetration or in the case of very dense building materials, it is possible that a longer exposure time can be necessary. After that, the drill holes can be sealed with KÖSTER Mautrol® Borehole Suspension or KÖSTER KB-Fix 5.

### Packaging

450 ml cartridge = 28 units / carton

### Storage

Can be stored for approx. 12 months in sealed leak proof containers.

Please follow the instructions for the storage of flammable liquids.

**Safety**

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

the horizontal barrier. If applied earlier, discolourations may occur due to migration of the KÖSTER Crisin® 76.

**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

**Technical guidelines cited**

KÖSTER Mautrol® Borehole Suspension	Art.-No.	3.05
KÖSTER Crisin® 76	Art.-No.	3.081
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/exterior plaster	∅ the 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 10 cm	14	8	12.5	8	1	1
to 20 cm	14	9	11.0	9	1	3
to 30 cm	14	9	11.0	9	1	5
to 40 cm	14	10	10.0	10	1	9
to 50 cm	14	12	8.5	12	1	14
to 60 cm	14	14	7.0	14	1	20
to 70 cm	14	16	6.0	16	1	27
to 80 cm	14	18	5.5	18	1	35
to 90 cm	14	20	5.0	20	1	45
to 100 cm	14	22	4.5	22	1	55

PLEASE NOTE: the use of the KÖSTER Suction Angle System is recommended for wall thicknesses of more than 24 cm.

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.