

KORATECT® HZS



- Short description** Concentrate for the installation of horizontal barriers against ascending and penetrating humidity in masonry.
- Certified up to 95% moisture penetration according to the WTA technical bulletin 4-4-04 „Masonry injection against capillary humidity“.
- Product properties** **KORATECT® HZS** is a solvent free, water thinnable concentrate. It hydrophobizes and crystallizes in the water-bearing capillaries of the masonry and blocks the water stream in the capillary system while maintaining the water vapor permeability (breathability) to a large extent.
- Its water-thin consistence permits an easy application by drill-hole impregnation either through gravity or pressure impregnation.
- Application** The dilution rate is chosen with reference to the moisture penetration of the masonry.
- at 60 % moisture penetration: undiluted up to 1:4 with tap-water
 - at 80 % moisture penetration: undiluted up to 1:3 with tap-water
 - at 95 % moisture penetration: undiluted up to 1:2 with tap-water
- The ready to use dilution exhibits long storage stability.
- Drill hole impregnation (gravity principle):
- remove loose plaster and paint
 - Cracks have to be scratched-out and repaired in advance
 - mark the bore holes in approx. 10 cm to 15 cm intervals laterally parallel to one another and alternating sequential in the same intervals over each other
 - A double-row alignment is recommended in case of dense, low absorbent building materials
 - Angle of drilling hole (declination of drilling hole): approx. 25° to 45°
 - The bore hole should have a depth until a residual wall thickness of approx. 5 cm is reached. If the wall is thicker than 0.6 m, the bore hole chains should be arranged on both sides of the wall. The depth of the bore hole is then at least 2/3 of the wall thickness.
 - Repeat filling of the bore holes with **KORATECT® HZS** ready-to-use solution until saturation is achieved.
 - Moisture penetration ratios of above 80 % must be treated using the pressure injection procedure.
- Pressure injection:
- Injection pressure should not exceed 5 bar
 - Arrangement of boreholes horizontally respectively similar to drill hole impregnation
 - Preparation of masonry similar to drill hole impregnation

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After treatment and accompanying measures

For additional information regarding the impregnation process see WTA technical bulletin 4-4-04 "Injection of Masonry in Order to Avoid Capillary Moisture Content"

The consumption strongly depends on the porosity of the building material. According to the test report regarding an application on brick (humidity penetration 95 %; mixing ratio 1:2) a consumption of 9 L/m² wall cross-section **KORATECT® HZS** was found. In case of dense building material this amount might be reached only after consecutive application.

Attention: Product is only suitable to the additional cross section sealing of porous, moisten building materials against capillary ascending humidity above the backwater and pressure water line. With compact building materials (small absorbency) it is required to examine the suitability of the product before use (stone and joint).

Technical data*

Appearance	:	colourless, clear
Viscosity	:	similar to water
pH-value	:	approx. 14
Density in g/mL	:	approx. 1.3
Water vapour permeability in %	:	> 90

Storage

KORATECT® HZS is sensitive to frost and high temperatures, it has a shelf life of minimum **12** months if stored in tightly sealed original container at storage temperatures between **+5** and **+40°C**.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Miscellaneous

As an alternative the preparation of horizontal barriers using **KORATECT® HSC** may be advantageous.

Further information on product safety and handling is given in the Material Safety Data Sheet.

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*Informative properties not intended to be used as product specification

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