

Damp proof barrier against rising damp in walls

- easy and economical application with applicator gun
- cost effective
- excellent penetration
- highly concentrated hydrophobic agents
- also suitable for high degrees of moisture
- solvent free

PRODUCT DESCRIPTION

VANDEX IC is a water-based ready-to-use silane/siloxane microemulsion cream that provides a barrier against rising damp.

AREAS OF APPLICATION

VANDEX IC can be applied as a damp proof barrier in the following building materials:

- all kind of mineral mortar course
- natural and rubble stone walls with mineral mortar course (open capillary)
- brick walls
- sand stone walls

It is not suitable for:

- granite and limestone walls without mortar course

VANDEX IC is preferably applied into an existing horizontal mortar course. VANDEX IC has been shown to be effective in walls of up to 95% moisture. The higher the moisture content of the wall, the longer it will take for the product to spread and cure in the wall.

Application of the product is guided according to the Vandex refurbishment of old buildings concept. This involves internal as well as external waterproofing and salt treatment, when appropriate.

Important: After application/penetration of VANDEX IC (taking approx. 3 months depending on the building material), the drying process starts in the wall above the horizontal damp proof course. The duration of this process depends on moisture content as well as nature and thickness of the wall. Based on empirical data, this drying process can typically take between 6 months and 1 year.

PROPERTIES

The active ingredients in VANDEX IC spread in the capillaries and form an effective hydrophobic barrier against humidity.

The microemulsion cream shows an excellent penetration capacity in capillary open materials and at the same time a very high water repellent effect. This effect is due to a change of interfacial tension between the pore surface and the water. This inhibits damp rising in the pores of the capillary system.

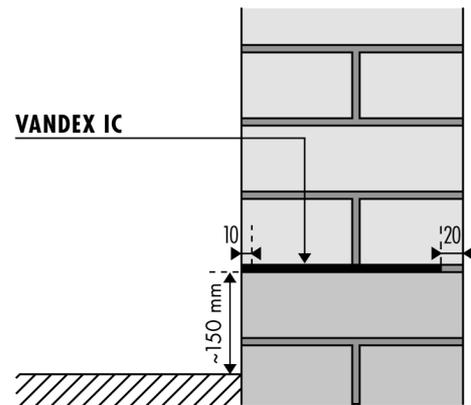
PREPARATORY WORK

Position of the drill holes is chosen according to the Vandex refurbishment of old buildings concept and the site conditions.

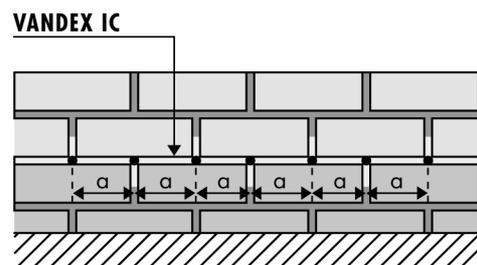
Holes with diameter of 12 mm are drilled with a distance of 120 mm on a horizontal level. Depth of the drill hole = wall thickness less 20 mm.

In order to achieve optimal effectiveness, the horizontal holes are drilled directly in the horizontal mortar course and the nearest possible below or above the vertical mortar course. After drilling, carefully clean holes from dust with compressed air.

Cross section of the wall:



Brickwork wall:



a = max. 120 mm

Cavity walls

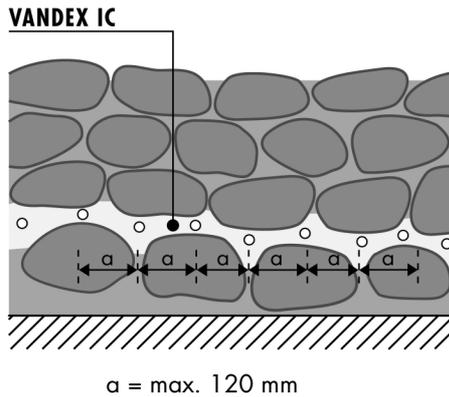
Cavity walls may be drilled from both sides and treated with VANDEX IC.

Natural and rubble stone walls

Position of the damp proof course: mortar course, if present. If the stones are porous, they can also be drilled.

If there is no clear continuous mortar course, it is recommended to drill 2 series of holes in levels one upon the other. The same procedure is recommended for unclear horizontal mortar courses.

Natural stone wall:



APPLICATION

Injection/Backfilling

VANDEX IC is applied with a simple applicator gun for 600 ml sausages. For an optimal backfilling, the use of VANDEX IC NOZZLE 35 or 100 is recommended. Insert the nozzle completely into the hole. Back fill the hole fully with constant pressure to within 10 mm of the surface. Avoid cavities.

Plugging

All holes are closed with VANDEX UNI MORTAR 1 or VANDEX RAPID 2.

Note

VANDEX IC has not been designed for surface application and should not be used for this purpose. Some white surface stain may occur around the injection site. Should this occur it will brush off when dry.

CONSUMPTION

Required number of sausages:

wall thickness \ wall length	150 mm	250 mm	350 mm	450 mm
10 m	3	4	6	7
20 m	5	8	11	14
30 m	7	11	16	20
40 m	9	15	21	27

Note: Allow an extra 10% when estimating (different site conditions).

PACKAGING

Cardboard box with 10 sausages of 600 ml each

Complementary products:

- VANDEX IC APPLICATOR GUN set (consisting of 1 VANDEX APPLICATOR GUN 600 + 1 VANDEX IC NOZZLE 35, in cardboard box)
- VANDEX IC NOZZLE 35 (length 35 cm)
- VANDEX IC NOZZLE 100 (length 100 cm)

STORAGE

Protect from frost. When stored in unopened, undamaged original packaging, shelf life is 12 months.

HEALTH AND SAFETY

Take the usual safety precautions when handling chemical products.

VANDEX IC is harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment. Refer to Material Safety Data Sheet on www.vandex.com.

TECHNICAL DATA	
Material basis	silane/siloxane microemulsion
Consistency	cream
Density	[g/cm ³] 0,92
Colour	white
All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.	

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.

Vandex®

CONCRETE PROTECTION AND WATERPROOFING

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