



Samafit VK

Chemical Damp-Proofing Course for sealing of Rising Dampness

Product Properties

- **Samafit VK** is a two Component, ready to use, product that has to be just introduced in predrilled holes
- Easy Application. The two components should not be mixed together but should be introduced in the holes separately after a proper time gap
- The two components react in the capillaries and form a gel product, which makes the capillaries non-wettable
- Prevents water rise in the capillaries against gravity and therefore controls rising dampness
- **Samafit VK** protects the structures from the dampness, which normally encourages moss, fungus growths and root growth. The decay in the wood is controlled and efflorescence is prevented. The walls are rendered dry for better plastering and painting. The process of silicification renders the capillaries hydrophobic.

Areas of Application

- **Samafit VK** can be universally used wherever the water ingress is due to capillary action. It is most efficient in solving the problem of rising dampness.
- **Samafit VK** can be effectively used for masonry superstructures as well as porous construction materials, which are unconventional.
- It can be very effectively used for old structures, monuments and for structures in areas having a high water table in addition to prevent the rising dampness occurring due to splashing rains in the lower unprotected splashing zones. **Samafit VK** can be also used in cases of water rising due to proximity of flowerbeds etc.

Application Notes

General

Samafit VK is a two pack waterproofing and sealing system for permanently solving the persistent rising dampness in the superstructure via capillaries. This rising dampness brings with it dissolved salts and chemicals. This results in peeling of plasters, paints and acceleration of rotting of woods in affected areas. Rising dampness is on the account of failure of Damp Proofing Course (DPC) or its absence. In some cases the DPC is bridged by aggressive site conditions. Old structures and monuments built several years back and with unconventional building materials are more prone to the rising dampness, thereby leading to the deterioration of heritage structures. **Samafit VK** enters the capillaries and converts them from water absorbent capillaries to water repellent capillaries and thereby stopping water transport in the capillaries. The ease of application of **Samafit VK** makes it most efficient waterproofing barrier against the rising damp.

Instructions for use

The usage of **Samafit VK** creates a Chemical DPC and therefore, its introduction should be at the lowest possible point almost touching the defective DPC or the position where DPC ought to have been installed. The holes should be drilled in the pattern shown in the table following this section. The spacing of holes will depend upon the absorption capacity of the building material in question. Lower the absorption, lesser will be the spacing. As a guideline horizontal spacing should be about 30 cm and vertical about 15- 20 cm and the pattern should be zigzag as depicted in the figure. The inclination of holes should be 30° and the depth should be 70 -90% of the wall thickness. The holes can be drilled either in the internal side or the external side. In case of wall thicknesses higher than 50 cm, it is advisable to drill holes on both the sides, as this would ensure that the material fills all the capillaries. The diameter of the holes should be about 12 - 20 mm. A water test should be done to see that the holes are not connected to cavities, cracks, etc. as this may drain **Samafit VK**.

Samafit VK 1 should be poured in the holes by spouted cans,

funnel or drip bottles and should be allowed to be absorbed in the Innermost capillaries. The operation should be continued until quick absorption stops and the level of **Samafit VK** remains steady. In case of masonry and building materials exhibiting dense and non-absorbent patterns, **Samafit VK** can also be injected by pressure. The main aim is to ensure perfect absorption of the materials.

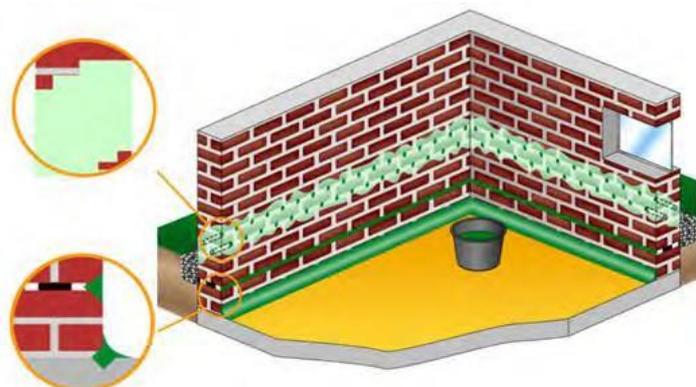
The area to be treated should have concentric overlapping as depicted in Figures in the following section. After about half an hour and not later than one hour the similar operation should be done with **Samafit VK2** or with **Samafit VK3**. In case of stubborn dampness, the whole above operation should be carried out next day to ensure that there is no further absorption. The holes can then be plugged and filled up with **MC-Fix-ST**.

After treatment, the areas treated with **Samafit VK** should be washed thoroughly and allowed to dry for about 2 - 3 weeks. All old damp plaster and paint should be removed as they may still contain salts, which would absorb the humidity in the air. If the surfaces are very wet then they can be treated with **Dichtament DS** waterproofing system. Otherwise a new waterproof plaster should be applied. It is imperative to take above steps as the rising dampness may still continue through the porous plasters and mortars. External surfaces can be sealed with water repellants like **Nisiwa SH** for longer protection.

For Special Applications a grade **Samafit VK3** is available on request as the second component to **Samafit VK1**. The consumption of the material varies as per absorption capacity of substrate. As a rough guideline, the amount of **Samafit VK** absorbed in each hole is 5 times volume of the hole.

Further Instructions / Precautions

Application and Silicification of Samafit VK to Arrest Rising Dampness



Technical Data For Samafit VK

Characteristic	Unit	Value	Comments
Consumption	Grams	200	Approx for 25 cm thick wall . Consumption also depends and varies by surface absorption capacity

Product Characteristics for Samafit VK

Type of Product	Chemical Damp-proofing course to stop Rising Dampness
Form	Liquid
Colour	Transparent to light brown
Shelf Life	12 months from date of Manufacture
Delivery	30 Kg Container and 1kg. Bottles
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

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