



COOL BARRIER GRIP DP

Silicone impregnating agent

Product description

Cool Barrier Grip DP is VOC-free impregnating cream based on silanes and siloxanes.

It provides long-lasting and reliable water repellency to mineral substances such as brickwork and façades. Cool Barrier Grip DP is specially designed to be used for wall injection against rising damp as well as for surface application. Due to its creamy consistence resulting in an excellent workability, Cool Barrier Grip DP suits various kinds of applications where a reliable protection of absorbing mineral construction materials from water intrusion is vitally important.

Furthermore, Cool Barrier Grip DP provides brickwork and façades with comprehensive protection against efflorescence and damage by water soluble pollutants. It also protects against frost damage and attack by microorganisms.

The physical properties of the construction material, especially its water vapour permeability (sd-value) and its visual appearance, are barely affected by this product.

Cool Barrier Grip DP no liquid product but a high viscosity cream which exhibits the following characteristic properties:

- simple, drip-free application with troublefree overhead workability
- extremely high concentration of active ingredients (approx. 80 %)
- alkaline resistant
- leaves no residual film
- dissipates easily within the masonry
- excellent penetration depth due to the long contact time with the masonry surface
- can be applied without any loss, in one single step and without running
- easy to pump and dose
- causes only little discoloration or intensification of the masonry surface colour
- Suitable to be used as a pressureless DPC injection with a moisture level of up to 95 %.

Cool Barrier Grip DP is suited to be used with any kind of mineral substances, such as:

- mortars
- plaster
- concrete
- limestone
- natural stone
- industrially made bricks and clinker

Application

Cool Barrier Grip DP has a very high active content of 80 % and is used in concentrated

form without dilution with solvents or water. The method of application depends on the purpose for which the product is required:

• Hydrophobing / façade impregnation:

Cool Barrier Grip DP can be applied by roller or brush. Its creamy character enables easy, drip and run-free application on walls and ceilings.

In general, a single application of Cool Barrier Grip DP is sufficient. The recommended application quantity is about 200 g/m². With very dense, high-quality concrete, a quantity of only 150 g/m² is required. Depending on material properties and porosity, application quantities of up to 300 g/m² are possible.

The silane/siloxane active ingredient penetrates the substrate between 30 minutes and several hours, depending on the porosity of the substrate. The milky-white cream totally disappears without leaving any residues. Due to its chemical composition, Cool Barrier Grip DP may cause a slight colour intensification depending on the physical properties of the material surface.

Once the cream has penetrated the masonry surface entirely, the brickwork is protected against moisture and water attack. While the cream is still penetrating, the construction elements mustn't be wetted by rain or other water sources as the cream might be washed away in this condition. This would render the impregnation ineffective.

• Wall draining / drill hole injection:

Cool Barrier Grip DP is mainly designed to be used for wall draining (DPC) by means of pressureless drill hole injection.

In this regard, the product is suitable to be effectively used at wall moisture levels of up to 95 %.

The product forms a long lasting silicone barrier inside the wall, reliably protecting the entire building from rising damp and allowing the brickwork above the injection layer to dry.

In order to aid the drying process we recommend undertaking additional measures to eliminate the source of humidity. Cool Barrier Grip DP comes ready to use and is injected into holes drilled into the brickwork without any need for a pressure system. Due to its perfect spreading properties and its extremely fine molecular structure, the product is able to spread deeply into the areas around the drill holes, forming a seamless silicone barrier against rising damp.

The injection holes are usually drilled at ground level (outside) or at floor level (inside).

The bore holes should have a diameter of approx. 12 mm. The distance between the bore holes should be approx. 12.5 cm. They should be placed in one line next to each other . The holes should be drilled horizontally into the mortar joint between the brick rows.

The depth of the boreholes should be approx.3 cm shorter than the thickness of the wall.

In order to gain best results, the bore holes should be cleared from dust and drilling residues before injection.

The injection is typically made with special injection guns or pumps. Alternatively, Cool Barrier Grip DP is available in handy injection cartridges and tubular bags.

It is imperative that the drill holes be completely and entirely filled with cream, free of air bubbles. The injection lance, which should be at least as long as the depth of the drill holes, must be totally inserted into the bore hole.

In order to fill the holes completely, the injection tube must be withdrawn slowly while injecting the Cream into the hole. Cream deposits that, due to possible over-dosage, accumulate around the bore hole entrance, can be wiped off by use of an absorbent cloth.

Finally, we recommend sealing the filled holes with rapid-hardening mortar directly after the Injection process. This measure is necessary in order to avoid the cream from running back

out of the holes and to prevent pollution of the cream that sits inside the holes.

Storage stability

The packages must not be exposed to direct sunlight or frost. A storage temperature within a range of + 5 to + 25 °C must be guaranteed.

In originally sealed containers, Cool Barrier Grip DP may be stored for maximum of 12 months after the date of dispatch.

Even after shelf life has expired, the product isn't necessarily unfit for use. However, in such case, we highly recommend to inspect the product regarding a potential infestation of bacteria and fungus.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. The management system has been certified according to DIN EN ISO 9001

For technical, quality, or product safety questions, please contact:

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Product properties

Composition:

High viscosity cream based on silanes and siloxanes

Appearance:

milky, white, pasteous

Concentration:

approx. 80 % VOC content

VOC-free Flashpoint:

n.a.

Viscosity (at 20 °C):

n.a.

Density (at 20°C)::

approx. 0,92 g/ccm

pH value:

n.a.

Packaging:

plastic drums*, metal buckets, plastic buckets, tubular bags, cartridges

Storage stability:

approx. 12 months at + 5 to + 25 °C

Note:

These figures are only intended as a guide and should not be used in preparing specifications.