

CB STONEGEL

HYDROPHOBIC SURFACE PRODUCT - HYDROFUGE, WATERBORNE GEL BASED ON A SILANE-SILOXANE MIXTURE (25%)

APPLICATION

CB Stonegel is used to reduce moisture infiltration in porous masonry and concrete structures, without significantly reducing water vapour permeability. By reducing the absorption of moisture, the materials are less likely to contaminate and the damage caused by acid rain is also reduced.

CB Stonegel is used on bricks, silicate bricks, concrete and cement plastering, roof tiles, etc. as long as these materials are sufficiently porous. **CB Stonegel** is not be applied on non-porous surfaces such as blue limestone, marble, glazed brick etc. nor on organic paint-coated surfaces. When applied to natural stone, there is a risk of local dimming or discoloration. We do not recommend application on natural stone.

PRODUCT DESCRIPTION

CB Stonegel is a waterborne and environmentally friendly, modified silane-siloxan mixture with a thixotropic character. Due to its gel-like viscosity, the product is spreadable, in contrast to traditional liquid impregnating agents. This character makes it easy to concentrate on the treatment of porous surfaces without the risk of irrigation of the non-porous areas. If carefully processed, it is therefore not necessary to protect the frame and glazing either.

An additional advantage is that **CB Stonegel** only needs to be applied in one layer. The product has a high penetration capacity, is alkali- and UV-resistant and can be applied on a slightly damp surface.

CB Stonegel polymerises under the influence of the humidity in the substrate or in the air, into an adhesive-free polysiloxane. The full moisture-repellent properties are obtained within a period of up to four months after the treatment. Especially in the initial phase, **CB Stonegel** gives the treated surfaces a pronounced "pearling" character.

CHARACTERISTICS

Texture	: gel texture, yellowish, milky-white, transparent after drying
Active ingredient content	: 25% silane-siloxane
Specific weight	: +/- 1,0
Flash point	: None
Effectiveness on brick <small>before and after accelerated aging</small>	: 100%, class A product
Effectiveness on natural stone <small>before and after accelerated ageing</small>	: 44 – 100%, class A,B of D product depending on the type of natural stone
Decrease in water vapor transmission <small>after damp-proofing</small>	: <10%, class A product



WORK METHOD

PREPARATION

When using **CB Stonegel**, the substrate must be clean, healthy and sufficiently dry. We would like to remind you that before treating old soiled surfaces, cleaning is recommended. After cleaning, the surface should be rinsed until it is completely free of dust. Poor joints, cracks or cavities in the stone must first be repaired. However, it is necessary to wait 8 days before impregnating fresh joints. Pulverized materials must first be treated with a stone-strengthener in order to rebuild the mineral structure. After the treatment with a stone-firming agent, it is necessary to wait at least 24 hours before placing the **CB Stonegel**. Depending on the pore structure of the materials to be treated, the quantities to be used vary between 0.150 and 0.500 kg per square meter. For an accurate estimation, a preliminary execution test is recommended, followed after 14 days by a measurement of the water absorption with the Karsten pipe in order to be able to verify the effectiveness of the treatment.

PRECAUTIONS

Because **CB Stonegel** is spreadable, it is possible to treat the porous areas without the risk of irrigation of very little-porous or non-porous materials such as, for example, bluestone, marble, enameled brick, etc. If any product does accidentally come into contact with these materials, it should be removed immediately with a cloth soaked in white-spirit. Similar precautions apply for the frame and the glazing, which are better protected with a suitable adhesive foil before treatment. In case of doubt, a preliminary performance test is recommended. This will make it possible to detect possible defects and to ascertain the optical changes that a treatment can cause in this case. In the presence of efflorescence salts, treatment is not recommended. The total penetration of **CB Stonegel** can vary from a few hours to a few days, depending on the ambient temperature and the porosity of the substrate. After penetration, the substrate may darken and, in exceptional cases, even show a slight sheen. Depending on the temperature, this may even take several weeks. This phenomenon disappears as the product completely expands. In case of sudden rainfall during a treatment, immediately stop the work and protect the already treated areas from being washed out by rain. The ideal application temperature is between 5°C and on surfaces warmer than 30°C/ Under no circumstances should **CB Stonegel** be applied in full sun, as the product does not have sufficient time to penetrate and may run off the facade.

APPLICATION

The treatment is done with a brush, a lambskin roll or an airless sprayer. The product is applied in one layer, taking into account the required consumption.

USE/DOSING

Depending on the porosity and the nature of the substrate, 0.150 to 0.500 kg per square metre. The following examples serve as guidelines:

- Washed concrete (silex) : +/- 0,15 kg/m²
- Architectonic concrete : +/- 0,20 kg/m²
- Bricks : +/- 0,20 – 0,30 kg/m²

PACKAGING

25 kg

SHELF LIFE

Minimum 6 months after manufacture in the original, closed packaging.

CONSIDERATION - EPILOGUE

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