

Technical Data Sheet

S-Protect SP Anti-graffiti Protection

Graffiti protection for porous mineral building materials

Product Description

S-Protect SP is an aqueous silane system that makes porous mineral building material surfaces hydro- and oleophobic. It is practically free from volatile organic components (VOC). S-Protect SP provides good weather-resistance and is water vapour permeable.

Table 1: Technical Data

| Property | Property | Unit | Method |
|------------------------------------------|-----------------------------------|-------------------|-----------|
| Density (20°C, 68°F) | ca. 1.01 | g/cm ³ | DIN 51757 |
| Appearance | yellowish, slightly cloudy liquid | | |
| Refraction index (20°C, 68°F) | 1.3368 | | DIN 51423 |
| Viscosity (20°C, 68°F) | 42.1 | mPa·s | DIN53015 |
| pH-value (20°C, 1:1 in H ₂ O) | 4.6 | | |
| Flash point | >95 (203 °F) | °C | EN 22719 |

Areas of Application

S-Protect SP is used as a graffiti repellent on non painted mineral building materials such as:

- Concrete
- Brick/clinker
- Sandstone (exception: test required)
- Sand limestone (natural stone)

The number of applications and the amount of S-Protect SP required are dependant on the substrate. In general, porous materials require more coats than dense micro porous materials. Several coats of S-Protect SP must be applied to provide proper protection against graffiti. Very porous and absorbent surfaces consume more product than smooth, dense and micro porous materials. Table 2 provides a guideline for required quantities. It is advisable to apply a test patch to determine the exact coverage rate.

Table 2: Product Consumption of various substrates

| Surface | Example | Approx. Total product consumption in g/m ² | Comments |
|----------------------------|---------------------------------------------------------|-------------------------------------------------------|--------------------------|
| Coarse, very low porosity | Clinker, facade brick | about 150 | 2 application steps |
| Smooth porous | Dense concrete | about 200 | 2 application steps |
| Coarse porous | Sandstone (red, Bernese), open cell concrete, limestone | about 270 and more | min. 2 application steps |
| Rough surface, very porous | Porous sandstone silesian, plaster, structured surfaces | about 300 and more | min. 2 application steps |

Product Characteristics

S-Protect SP Anti-graffiti Protection

- repels water, oil and solvent-based paints on porous mineral building materials
- creates a water vapour permeable, hydro- and oleophobic impregnation

General Directions for Using S-Protect SP

S-Protect SP is a water-based system and should not be applied at temperatures below +3°C.

Both surface and ambient temperatures should be between +5°C and +40°C during application. It is important to shake the S-Protect SP before the application in order to dissolve precipitated material.

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General Directions for Using S-Protect SP cont.

Step 1:

The surface of the facade to be impregnated must be clean and dry. All dirt and other substances, such as stains, algae and moss must be thoroughly removed. Any water absorbed by the surface during the cleaning process must evaporate before application. Cracks, gaps, and flawed joints must be properly repaired. Freshly applied repair mortar should be allowed to cure so that the surface is dry.

In the cast that a hydrophobizing agent such as S-Protect BHN or S-Protect WS405 have been applied to the substrates, it is mandatory to wait 5 days before S-Protect SP is applied.

Adjacent surfaces, such as windows, painted or unpainted surfaces, glass, plants etc must be covered with appropriate materials (eg. plastic-sheeting) to avoid damage.

Step 2:

S-Protect SP is a ready-to-use product.

It is recommended to apply S-Protect SP with HVLP (High Volume Low Pressure) equipment using a block brush to control and drips. It is always recommended to apply a sample area to confirm consumption.

The first application should be carried out from bottom to top to prevent run off due to per-impregnation. Large drops should be rubbed away with a block brush. The water-repellent effect will develop within a few minutes.

Step 3:

Additional applications are required to provide a sufficient protection against graffiti. The surface must dry completely between coats. The time required for drying relies on the weather conditions and the type of construction material. Care must be taken to ensure that the coating is distributed uniformly (ie. that the surface is uniformly wetted, the surface should appear bright and wet). The next coat can be applied as soon as first coat has dried. The drying time required varies between 10 minutes and one hour depending on the weather. The S-Protect SP should be allowed to dry for a minimum of one week to fully catalyse before a graffiti attack.

Graffiti Cleaning

If S-Protect SP is attacked by graffiti sprays use a viscous cleaner such as S-Protect Anti Graffiti Cleaner from Stoanz Ltd with the appropriate cleaning instructions. Depending on the extent of the attack it is recommended to reapply S-Protect SP to the cleaned areas.

Product Safety

Before application read the Material Safety Data Sheet thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available upon request from Stoanz Ltd.

Packaging, Storage and Handling

S-Protect SP is supplied in ready-to-use 10 Litre container.

S-Protect SP is not resistant to frost and should be stored at temperatures between +3°C and +40°C.

S-Protect SP has a shelf life of 12 months if stored in originally sealed containers.