

Protectosil ANTIGRAFFITI® SP

Semi-permanent graffiti protection for porous mineral building materials

Technical Data

Properties and test methods	Value	Unit	Method
Density (20 °C, 68° F)	approx. 1.01	g/cm ³	DIN 51757
pH-value (20 °C, 1:1 in H ₂ O)	4,6	-	
Appearance	yellowish, slightly cloudy liquid	-	
Flash-Point	> 95 (203 °F)	°C	EN 22719

Registration

Protectosil ANTIGRAFFITI® SP

EINECS/ELINCS (EU):	Yes
AICS (Australia):	No
DSL/NDSL (Canada):	Yes
PICCS (Philippines):	No
TSCA (USA):	Yes
IECSC (P.R. China):	No
ENCS (Japan):	No
ECL (South Korea):	No

Protectosil ANTIGRAFFITI® 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). The protection with Protectosil ANTIGRAFFITI® SP provides good weather-resistance and is water vapor permeable. Protectosil ANTIGRAFFITI® SP is a ready to use product.

Product characteristics

- repels water, oil, and solvent-based paints on porous mineral building materials
- creates a water vapor permeable, hydro- and oleophobic impregnation
- provides semi-permanent protection: even after 3 cleaning cycles re-application is not required

Safety and Handling

Before considering the use of Protectosil® products please read its Safety Data sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Safety Data Sheet is available on our website www.protectosil.com or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com.

Packaging and Storage

Protectosil ANTIGRAFFITI® SP has a shelf life of more than 12 months if stored in originally sealed containers. The product should be stored at temperatures between 3 °C and 40 °C. Protectosil ANTIGRAFFITI® SP is supplied in 25.4 kg pails and 200 kg drums.

Properties and Use

Protectosil ANTIGRAFFITI® SP may be used as a graffiti repellent on non painted mineral building materials such as:

- Concrete
- Brick/clinker
- Sandstone (exception: Udelfanger sandstone)
- Sand limestone (natural stone)

The number of application steps and the amount of Protectosil ANTIGRAFFITI® SP required are a function of the substrate and the desired effect. In general, porous materials require more coats than dense microporous materials. Several coats of Protectosil ANTIGRAFFITI® SP must be applied to provide proper protection against graffiti. Very porous and absorbent surfaces consume more product than smooth, dense, and microporous materials. It is advisable to apply a test patch to determine the exact coverage rate.

General Directions for Using Protectosil ANTIGRAFFITI® SP

Protectosil ANTIGRAFFITI® SP is a water-based system. Therefore it should not be applied at temperatures below 3 °C. Both surface and ambient temperatures should be between 5 °C and 40 °C during application. Please shake the Protectosil ANTIGRAFFITI® SP before the application in order to redisperse precipitated material.

Application

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 itself must dry thoroughly 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 case that a water-repellent agent such as Protectosil® BHN or a corrosion inhibitor such as Protectosil® CIT have been applied to the substrate, it is recommended to wait at least 5 days before Protectosil ANTIGRAFFITI® SP is applied.

In order to protect adjacent surfaces, such as windows, painted or unpainted surfaces, glass, plants, and soil that are not supposed to come into contact with the product they should be covered with appropriate materials (e.g., plastic-sheeting).

Step 2:

Protectosil ANTIGRAFFITI® SP is a ready-to-use product.

Best results are achieved using a roller or a brush (e.g. wallbrush or paint brush). In order to decrease product loss, it is recommended to apply Protectosil ANTIGRAFFITI® SP with HVLP (High Volume Low Pressure) equipment. For the purpose of checking the necessary product consumption, we recommend in any case to apply and to observe test patches.

The first application should be carried out from bottom to top to prevent preimpregnation due to run off. Large drops should be rubbed away with a brush. A water beading 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 is a function of weather conditions and the type of construction material. Care must be taken to ensure that the coating is distributed uniformly (i.e. that the surface is uniformly wetted, the surface should appear bright and wet). The next coat can be applied as soon as the surface of the preceded coat has dried. The drying time required varies between 10 minutes and one hour depending on the weather. For a good long-term performance it is of advantage that the Protectosil ANTIGRAFFITI® SP can dry for a minimum of one week before graffiti sprays are applied.

Processing

Graffiti cleaning

If Protectosil ANTIGRAFFITI® SP is attacked by graffiti sprays a viscous cleaner should be used for cleaning. One possible cleaner is Protectosil® PROFICLEAN GEL from Evonik. The cleaner should only be applied to a dry surface. The cleaner should interact with the paint for about 15-30 minutes.

Never let the cleaner dry on the surface. After applying about 400 g/m² of cleaner, it should be thoroughly distributed over the paint and the substrate surface. It might be necessary to apply the cleaner several times. After the paints are dissolved they can be washed away by a high-pressure cleaner (with max. 12 bar). If paints based on bitumen have been applied to the surface additional use of a special bitumen cleaner might be necessary.

Application Details

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

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