

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 |
| Viscosity (20 °C, 68° F) | 42,1 | mPa.s | DIN 53015 |
| 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 |
| Refraction index (20 °C, 68°F) | 1,3368 | - | DIN 51423 |

Registration

Protectosil ANTIGRAFFITI® SP

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

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 Material Safety Data sheet (MSDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available after registration on our website www.dynasytan.com or upon request from your local representative, customer service or from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@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 kg pails.

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.

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Europe / Middle-East / Africa / Row

Evonik Industries AG

Inorganic Materials
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59 13636
FAX +49 6181 59 13737
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik Degussa (SEA) Pte. Ltd.

Inorganic Materials
3 Internatioanl Business Park
#07-18, Nordic European Centre
Singapore 609927
PHONE +65 6890 6830
FAX +65 6899 6630
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik Taiwan Ltd.

Inorganic Materials
Artist Construction Bldg
9F, No. 133
Min Sheng East Road, Sec 3
Taipei, 105 Taiwan, R.O.C.
Taiwan
PHONE +886 227 17 1242
FAX +886 227 17 2106
protectosil@evonik.com
www.protectosil.com

North America

Evonik Degussa Corporation

Inorganic Materials
P.O. Box 677
299 Jefferson Road
Parsippany, NJ 07054-0677
USA
PHONE (TOLL FREE) +1 800 828 0919
PHONE +1 973 929 8513
FAX +1 973 929 8503
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik Degussa (Shanghai) Co. Ltd.

Inorganic Materials
55, Chungdong Road
Shanghai 201108
P.R. China
PHONE +86 21 6119 1053
FAX +86 21 6119 1075
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik Japan Co. Ltd

Inorganic Materials
12th Floor Monolith Building
2-3-1, Nishi-Shinjuku-ku
Tokyo 163-0912
Japan
PHONE +81 353 23 7300
FAX +81 353 23 7399
protectosil@evonik.com
www.protectosil.com

Latin America

Evonik Brasil Ltda.

Inorganic Materials
Alameda Campinas, 579
01404-000 São Paulo-SP
Brazil
PHONE +55 11 3146 4123
FAX +55 11 3146 4148
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik Korea Ltd.

Inorganic Materials
94, Galsan 1-dong
Bupyeong-gu
Incheon, 403-081, Korea
PHONE +82 32 510 2433
FAX +82 32 505 2510
protectosil@evonik.com
www.protectosil.com

Asia / Pacific

Evonik India Pvt. Ltd.

Inorganic Materials
Krislon House
Saki Vihar Road, Anderi (E)
Mumbai - 400 072
India
PHONE +91 226 7238 809
FAX +91 226 7238 811
protectosil@evonik.com
www.protectosil.com