

# Protectosil® ANTIGRAFFITI

## Product Data and Test Information-USA



### PRODUCT DESCRIPTION

A waterborne breathable, anti-graffiti treatment for use on concrete, brick, concrete masonry units and natural stone. **Protectosil ANTIGRAFFITI** protects surfaces to allow easy removal of a wide variety of graffiti, including spray paint, permanent marker, ink, bituminous paints, asphalt sealers, and other solvent or waterborne paints. Because of **Protectosil ANTIGRAFFITI**'s superior performance, standard non-hazardous cleaners and low-pressure waterblasting are sufficient removal methods for most graffiti.

**Protectosil ANTIGRAFFITI** is breathable and will not alter the natural appearance of the substrate. These properties make the product ideal for masonry walls.

**Protectosil ANTIGRAFFITI** is based on silane chemistry. It will chemically bond to the substrate. This allows the material to undergo many cleaning cycles before retreatment is necessary.

**Protectosil ANTIGRAFFITI** is especially suited for application when solvent-borne products are not acceptable, as in states that have VOC regulations for AIM coatings. **Protectosil ANTIGRAFFITI** is VOC compliant in all 50 states.

### APPROPRIATE APPLICATIONS

Materials such as cast-in-place concrete, brick and block masonry, and natural stone can be protected from graffiti. For use on buildings, walls, sound barriers, piers, columns, bridges and other areas prone to the negative effects of graffiti.

To be used in conjunction with other Protectosil CHEM-TRETE and Protectosil AQUA-TRETE water repellents to provide water and graffiti protection for the entire structure.

Other substrates that can be protected include sandstone, terra-cotta, hand-molded bricks, limestone, granite and most natural stones.

### ADVANTAGES

**Protectosil ANTIGRAFFITI** is a patented silane-based mixture in water. It provides a clear, nearly invisible barrier against the most common graffiti products such as spray paints and markers. Depending on the severity and type of graffiti as well as the cleaning method used, up to ten cleanings can be expected from each application. If needed, additional **Protectosil ANTIGRAFFITI** can be applied to only the affected area without a visible difference on the substrate.

The main benefits of the product are:

- Non sacrificial properties
- Zero VOC
- Breathable

- Clear
- Excellent UV stability
- Resistance to alkali attack
- Tack-free after drying
- No blushing, peeling or yellowing
- Easy application

### LIMITATIONS

Will leave a residue on nonporous materials such as glass, metal and painted surfaces. Shrubbery and plant life should be protected from overspray.

Should not be applied if the surface temperature is below 40°F (5°C) or above 85°F (30°C), if rain is expected within 2 hours following application, if wind speeds exceed 10 mph or other conditions prevent proper application. If rain has preceded the application, the surface should be allowed to dry for at least 24 hours.

### TECHNICAL DATA

**PROTECTOSIL ANTIGRAFFITI** is a patented fluorosilane mixture in water.

|                  |                        |
|------------------|------------------------|
| Color            | light yellow           |
| Active Substance | Polymeric fluorosilane |
| Solvent          | water                  |
| Flash Point      | none                   |
| Density          | 8.84 lb/gal            |
| VOC              | < 20 g/l               |

### TEST DATA

#### ASTM 6578 "Graffiti Resistance"

Clean ability Level of 3 after 25 cycles

#### ASTM 653 "Accelerated Weathering"

No change in graffiti resistance after 2000 hours

#### ASTM D6490 "Breathability"

> 90% Breathable

### APPLICATION INSTRUCTIONS

Concrete must be allowed to cure for a minimum of 28 days. All repointing must be completed and allowed to cure for at least 3 days. Concrete repair and replacement must be completed before application of **Protectosil ANTIGRAFFITI**. Patching materials, caulking, sealing materials and traffic paint must be fully cured before application.

All surfaces must be cleaned to remove all traces of graffiti, dirt, dust, efflorescence, mold, salt, grease, oil, asphalt, laitance, curing compounds, paint, coatings and other foreign materials. Acceptable surface cleaning methods include shot-blasting, sandblasting, waterblasting and using chemical cleaners. Check with your local Protectosil representative to verify that surface preparation is adequate. (continued)

Any water absorbed by the surface during cleaning must be allowed to dry before applying **Protectosil Antigraffiti**.

**Protectosil Antigraffiti** should be applied with rollers or brushes. Two applications at full strength are required for permanent graffiti protection. In some instances, a primer application will be necessary prior to the full strength coats. The primer can be made by diluting 1 part of the full strength product with 9 parts water. A test patch should always be conducted to determine the appropriate application. Start from the bottom of the wall and work upwards to prevent premature impregnation by material running down the surface. The water-repellent effect appears within a few minutes.

Before applying the second coat, allow the surface to dry completely. The second coat should also be applied starting from the bottom and working your way up the wall. Ensure that the liquid is distributed evenly (i.e. the surface is wetted evenly).

Each coat must be applied in one operation to avoid overlapping. If the second coat is repelled by the previous coat, the addition of up to 1 cup (8 ounces) of Isopropyl alcohol per gallon of **Protectosil Antigraffiti** is permitted. The addition of alcohol will allow the Antigraffiti to "wet out" better. Less alcohol can be utilized, as long as wetability of the product is not compromised. Once the alcohol is added to the Antigraffiti, there is a pot life of 8 hours. Do not mix more product than is needed for 8 hours of work. Substrate temperature should be less than 85°F. during application. Applying this material when the substrate temperature is above 85°F can result in the water carrier flashing off before adequate penetration is achieved. Do not apply to a wet or damp substrate.

Application rates are dependent on porosity and surface roughness of the substrate. Apply a test patch to determine actual coverage rate and number of coats of **Protectosil ANTIGRAFFITI** before starting the project.

Usage is typically 175 to 250 ft<sup>2</sup>/gal in two to three coats. The total usage, including all coats, should be 175 to 250 ft<sup>2</sup>/gal. Your Protectosil representative can give an exact coverage rate and application conditions after a test patch has been applied.

Protect glass, metal and other nonporous substrates from overspray. **Protectosil ANTIGRAFFITI** will not etch glass but will leave a residue on nonporous surfaces. Some darkening of the surface may occur, depending on the amount of **Protectosil ANTIGRAFFITI** applied and the color and texture of the substrate. A test patch must be applied in order to verify actual conditions on the substrate.

**Precautions: Protectosil ANTIGRAFFITI** product containers should be kept closed when not in use and should be stored at temperatures between 40°F (5°C) and 100°F (40°C), away from rain and standing water.

Do not allow material to freeze. Please read the material safety data sheet for more detailed information.

#### GRAFFITI REMOVAL

**Protectosil ANTIGRAFFITI** is designed to allow easy removal of paint, markers and other materials used for graffiti from concrete, masonry and natural stone substrates. Acceptable methods for removing graffiti include citrus-based paint removers, high-pressure water, steam cleaning and proprietary cleaners. Contact your Protectosil representative for approved products.

If high-pressure water is used, care must be taken so as not to etch the substrate. Removing the substrate will also remove the **Protectosil ANTIGRAFFITI**.

#### AVAILABILITY

**Protectosil ANTIGRAFFITI** is available in 5-gallon pails and 50-gallon drums. Shipped F.O.B. throughout the United States and Canada. Contact your local Protectosil representative or your regional manager for specific cost information. You can obtain their contact information on our website, [www.protectosil.com](http://www.protectosil.com), or by calling us at 1 (800) 828-0919.

#### TECHNICAL SERVICE

Technical service engineers and scientists are available to answer questions about product performance, application methods and compatibility with other building materials. You can speak to one of our engineers or scientists directly by calling our toll-free number, 1 (800) 828-0919, and selecting option 1.

#### MANUFACTURER

Evonik Corporation  
299 Jefferson Road  
Parsippany, NJ 07054-0677  
1 (800) 828-0919  
[info.protectosil@evonik.com](mailto:info.protectosil@evonik.com)  
[www.protectosil.com](http://www.protectosil.com)

PROTECTOSIL PRODUCTS ARE MANUFACTURED AT THE EVONIK CORPORATION THEODORE, ALABAMA, PLANT UNDER A QUALITY SYSTEM CERTIFIED TO ISO-9001 AND ISO-14001 REQUIREMENTS.

**For more information, SDS and the most updated product information, and to find your local representative, go to [www.protectosil.com](http://www.protectosil.com)**

#### **Protectosil = registered trademarks of Evonik Industries**

This information and all technical and other advice are based on Evonik Corporation's ("Evonik") present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility and obligation to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.