

# Protectosil® AQUA-TRETE® SG

STAIN-RESISTANCE & SACRIFICIAL  
ANTIGRAFFITI TREATMENT



## PRODUCT DESCRIPTION

This product is a clear, breathable, ultra-low-VOC treatment for concrete, brick, concrete masonry units, tiles, EFIS, pavers, natural stone, paint and other building materials. **Protectosil AQUA-TRETE SG** is a multifunctional system that provides superior water and stain resistance and also performs as a sacrificial antigraffiti coating. The primary function of **Protectosil AQUA-TRETE SG** is to repel water- and oil based materials that cause staining, thereby making cleaning easier. The unique multifunctional chemistry makes the **Protectosil AQUA-TRETE SG** inherently UV stable. This feature allows longer surface repellency than is offered by competing technologies. **Protectosil AQUA-TRETE SG** decreases such problems as dirt buildup, staining and graffiti tagging.

The sacrificial antigraffiti properties protect surfaces from different types of graffiti, including spray paint, permanent markers, ink, bituminous paints, and other water- or solvent-borne paints. By reducing the ingress of contaminants and graffiti, **Protectosil AQUA-TRETE SG** prevents any adverse change in the surface appearance of the substrate. The natural moisture vapor transmission remains unaffected, leaving treated surfaces fully breathable and eliminating problems caused by entrapped moisture, including blushing and freeze-thaw damage to the substrate.

## APPROPRIATE APPLICATIONS

All mineral building materials, both interior and exterior, can be treated to prevent staining due to waterborne and oil-based substances.

For use on concrete buildings, to mitigate silicate rundown onto windows.

For use with EFIS, to reduce water absorption and help keep material cleaner. For use in areas where food stains occur on mineral building materials, such as food courts, pedestrian malls, sports arenas and restaurants. For use on buildings, walls, sound barriers, piers, columns, bridges or other areas where unwanted graffiti generally appears. Other substrates that can be protected include sandstone, terra-cotta, hand-molded bricks, pressed cementitious tiles, ceramic, limestone, marble, granite other natural stones and various types of pavers including but not limited to concrete, clay brick tumbled and Wausau.

## ADVANTAGES

The proprietary mixture of a special oleophobic material and bonding agents in **Protectosil AQUA-TRETE SG** creates an area of extremely low surface tension on a variety of substrates. This effect renders the surface resistant to the absorption of water-based and oil-based contaminants. **Protectosil AQUA-TRETE SG** not only provides stain resistance against oil-based materials, but also makes it easier to use conventional cleaners to clean up spills. This ability to repel oils yet still allow the use of conventional cleaners (as opposed to harsh solvent-chemical cleaners) is a unique advantage of **Protectosil AQUA-TRETE SG**. The sacrificial antigraffiti properties of **Protectosil AQUA-TRETE SG** provide a clean, nearly invisible barrier against the most common graffiti products. If necessary, additional **Protectosil AQUA-TRETE SG** can be applied to only the affected area, without visible difference on the substrate. By incorporating **Protectosil AQUA-TRETE SG** into your integrated design, you can earn vital Leadership in Energy & Environmental Design (LEED) credits for both new and existing construction projects.

The main benefits of the product are:

- Excellent resistance to food products
- Reduction of staining due to atmospheric pollutants
- No wetting out of substrate
- Reduced mineral rundown onto windows
- Breathable system
- Easy removal of graffiti
- No blushing, peeling or yellowing
- Resistance to alkali attack
- Ultra Low VOC
- Keeps substrate cleaner

## LIMITATIONS

Will leave a residue on nonporous materials such as glass and metal. 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 100°F (40°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 a minimum of 8 hours.

(continued)

## TECHNICAL DATA

**Protectosil AQUA-TRETE SG** is a mixture of proprietary oleophobic materials in water.

Color	slightly yellow
Active Substance	oleophobic compound
Solvent	water
Flash Point	>200°F
Density	7.9 lb/gal
VOC	25 g/l

## TEST DATA

**Absorption of automotive fluids:** time to fully absorb into the concrete surface

### Motor Oil

Untreated surface	4.5 hours
<b>Protectosil AQUA-TRETE SG</b>	8+ days

### Transmission Fluid

Untreated surface	2.75 hours
<b>Protectosil AQUA-TRETE SG</b>	8+ days

### Engine Coolant

Untreated surface	0.75 hour
<b>Protectosil AQUA-TRETE SG</b>	8+ days

### Food Products

Ketchup	Excellent
Mustard	Excellent
Soy sauce	Excellent
Vegetable oil	Excellent
ASTM D2047 "Surface Friction"	
Dry	No Change
Wet	No Change

### Stain Resistance

## INSTALLATION

All surfaces must be cleaned to remove all traces of dirt, dust, efflorescence, mold, salt, grease, laitance, curing compounds and other foreign materials. Acceptable surface cleaning methods include shotblasting, sandblasting, waterblasting and using chemical cleaners.

**Protectosil AQUA-TRETE SG** is supplied ready to use and should not be altered or diluted in any way. It should be applied using low pressure (15 to 25 psi) spray equipment with a wet fan type spray nozzle. Alternate methods include using either a power roller with a 1" nap or a brush. Do not apply to a wet substrate. A test patch should be applied to the substrate to verify coverage rate, application method and desired results.

**Protectosil AQUA-TRETE SG** should be applied at a coverage rate to obtain the desired repellent effect. A test patch should be applied and a field test run to determine whether the repellency is acceptable. For sacrificial antigraffiti applications, two coats are required.

On low-porosity surfaces such as ceramic tile or polished

marble, **Protectosil AQUA-TRETE SG** may leave a residue or visible film. This can be averted by using a soft cloth to remove any excess material. If **Protectosil AQUA-TRETE SG** has dried, it can be buffed to remove any blemishes.

Protect glass, metal, plastic and other non mineral substrates from overspray. **Protectosil AQUA-TRETE SG** will not etch glass but will leave a residue on nonporous surfaces. Clean equipment immediately with soap and water.

**Precautions:** **Protectosil AQUA-TRETE SG** containers should be kept closed when not in use and should be stored at temperatures between 40°F (5°C) and 120°F (50°C), away from rain and standing water. **Protectosil AQUA-TRETE SG** must be protected from freezing. Please refer to the material safety data sheet for detailed information.

Remove stains and spills from treated surfaces as soon as possible. Use soap and water, mild detergents, or citrus-based cleaners. Surfaces can also be cleaned with low-pressure power washing (1000 psi max.). Do not use harsh chemical cleaners such as acids or high-pH products. Periodically retreat surfaces to maintain original performance.

## AVAILABILITY

**Protectosil AQUA-TRETE SG** is available in 5-gallon pails and 55-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, MSDS and the most updated product information, and to find your local representative, go to [www.protectosil.com](http://www.protectosil.com)

### **Protectosil®**, **AQUA-TRETE®**= 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.