

Product Data and Test Information

PROTECTOSIL® AQUA-TRETE® SG

Stain-Resistance & Sacrificial Antigraffiti Treatment

PRODUCT DESCRIPTION

Protectosil® AQUA-TRETE® SG is a clear, breathable, ultra-low VOC treatment for concrete, brick, concrete masonry units, tile, EFIS, pavers, natural stone, paint and other building materials. This product 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 of this product makes it inherently UV stable, allowing for longer surface repellency than what is offered by competing technologies.

Protectosil® AQUA-TRETE® SG decreases such problems as dirt buildup, staining and graffiti tagging. Its 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

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.

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

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 it also makes it easier to use conventional cleaners to clean up spills. This ability to repel oils and still allow for 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

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application. If rain has preceded the application, the surface should be allowed to dry for a minimum of 8 hours.

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/lit

TEST DATA

Absorption of automotive fluids: time to fully absorb into the concrete surface	
Motor Oil	
Untreated Surface	4.5 hours
Protectosil® AQUA-TRETE® SG	8+ days
Transmission Fluid	
Untreated surface	2.75 hours
Protectosil® AQUA-TRETE® SG	8+ days
Engine Coolant	
Untreated surface	0.75 hours
Protectosil® AQUA-TRETE® SG	8+ days
Food Products	
	Stain Resistance
Ketchup	Excellent
Mustard	Excellent
Soy Sauce	Excellent
Vegetable Oil	Excellent
ASTM D 2047 "Surface Friction"	
Dry	No Change
Wet	No Change

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. 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 and 120°F (5°C and 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, or by calling us at 1 (800) 828-0919.

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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.

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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 silanes.evonik.com/en

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