

PROSOCO Saltguard® WB Water Repellent Specification

Specifier Note: The information provided below is intended to guide the Architect in developing specifications for products manufactured by PROSOCO, Inc. and should not be viewed as a complete source of information about the product(s). The Architect should always refer to the Product Data Sheet and MSDS for additional recommendations and for safety information

Specifier Note: Paragraph below is for PART 1 GENERAL, Quality Assurance.

Test Area

Test a minimum 4 ft. by 4 ft. area on each type of masonry. Use the manufacturer's application instructions. Let test area protective treatment cure before inspection. Keep test panels available for comparison throughout the protective treatment project.

Specifier Note: Paragraphs below are for PART 2 PRODUCTS, Manufacturers and Products.

Manufacturer: PROSOCO, Inc., 3741 Greenway Circle, Lawrence, KS 66046. Phone: (800) 255-4255; Fax: (785) 830-9797. E-mail: CustomerCare@prosoco.com

Product Description

PROSOCO Saltguard® WB is a ready-to-use water-based, VOC compliant silane/siloxane water repellent and "chloride screen" for the protection of concrete and masonry surfaces. Saltguard® WB penetrates more deeply than conventional water- or solvent-based water repellents. Low odor and alkaline stable, Saltguard® WB is ideal for field or in-plant application to concrete and most masonry surfaces. Saltguard® WB protects surfaces from moisture intrusion and chemical attack of chloride salts. In coastal areas, Saltguard® WB screens chlorides from penetrating through concrete to reinforcing steel and reduces rebar corrosion and surface spalling caused by water-carried salts. Saltguard® WB is appropriate for use on horizontal surfaces such as driveways, sidewalks, and tile, brick and sandstone pavers, as well as providing excellent protection for retaining walls, bridge pilings and other vertical surfaces exposed to de-icing salts.

Typical Technical Data

FORM: White, odorless liquid

SPECIFIC GRAVITY: 0.997

pH: 7 to 8

WEIGHT/GALLON: 8.24 pounds

ACTIVE CONTENT: 5 percent

TOTAL SOLIDS: 4.2 percent

FLASH POINT: greater than 212 degrees F (greater than 100 degrees C)

FREEZE POINT: 32 degrees F (0 degrees C)

VOC CONTENT: less than 25 grams per Liter Low Solids Coating. Complies with all known national, state and district AIM VOC regulations.

Limitations

- Not for use on natural stone, except sandstone.
- Do not apply at temperatures above 95 degrees Fahrenheit (35 degrees Celsius). Higher temperatures evaporate the water carrier which may result in an uneven appearance.
- Always test for proper penetration when applying to tightly troweled concrete, such as garage floors.
- Will not prevent water penetration through structural cracks, defects or open joints.
- Not suitable for application to coated surfaces or surfaces previously treated with water repellents or liquid hardeners.
- Water repellency of treated surfaces will increase for up to 14 days after application.
- Not suitable for protecting surfaces subjected to constant water spray (car washes).

- Not suitable for application to synthetic resin paints, gypsum or other non-masonry surfaces.
- May not be suitable for surfaces to receive paints or coatings. Always test for compatibility.
- Not recommended for below-grade application.

Specifier Note: For Performance Specifying, paragraphs below are for PART 2 PRODUCTS, System Performance.

Performance Tests:

- NCHRP 244 Series II Reduction in Chloride Ion Absorption 90 percent
- NCHRP 244 Series IV Reduction in Chloride Ion Absorption after weathering 88 percent
- ASTM E 96 Water Vapor Transmission
 - 91 percent retained for clay brick
 - 92% retained for concrete
- ASTM C 140 Water Absorption Immersion
 - 92% broom-finished concrete
 - 94% bluestone
 - 94% clay paver
- ASTM E 514 Wind-Driven Rain Penetration (percent reduction of control) 91 percent
- ASTM C 672 Scaling Resistance Exposure to De-Icing Chemicals and Freeze/Thaw Cycles – no mass loss; no scaling.
- ASTM G 154 Accelerated Weathering Resistance – no peeling, yellowing or blistering on precast concrete after 2500 hours.
- Resistance to Sunlight is Excellent
- Resistance to Alkalinity is Excellent

Specifier Note: Paragraphs below are for PART 3 EXECUTION, Installation.

Application

Before applying, read “Preparation” and “Safety Information” sections in the Manufacturer’s Product Data Sheet for PROSOCO Saltguard® WB. Refer to the Product Data Sheet for additional information about application of Saltguard® WB. Do not dilute or alter. Mix well before application.

VERTICAL APPLICATION INSTRUCTIONS

For best results, apply Saltguard® WB “wet-on-wet” to a visibly dry and absorbent surface.

Spray: Saturate from the bottom up. Apply enough for a 4 to 8 inch (15 to 20 centimeter) rundown below the spray contact point. Let the first application penetrate for 5 to 10 minutes. Reapply in the same saturating manner. Less material will be needed for the second application.

Brush or Roller: Apply uniformly. Saturate the surface. Let Saltguard® WB penetrate for 5 to 10 minutes. Brush out heavy runs and drips that do not penetrate.

SPECIFIER NOTE: Brush or roller application is recommended for small scale application or locations where use of high-volume, low pressure sprayers is not appropriate.

HORIZONTAL APPLICATION INSTRUCTIONS

1. Apply Saltguard® WB in a single saturating application. Use enough to keep the surface wet for 2 to 3 minutes before penetrating. Do not over apply.
2. Broom out all puddles thoroughly until they penetrate the surface. Wipe up all excess material.

SPECIFIER NOTE: Always test for proper penetration on tightly troweled concrete, such as garage floors. The tight finish or residual curing and sealing compound(s) may interfere with Saltguard[®] WB's ability to penetrate the surface.

DENSE SURFACE APPLICATION INSTRUCTIONS

Apply a single coat. Use enough to completely wet the surface without creating drips, puddles or rundown. Do not over apply. Test for application rate.

SPECIFIER NOTE: Always test for proper penetration on tightly troweled concrete, such as garage floors. The tight finish or residual curing and sealing compound(s) may interfere with Saltguard[®] WB's ability to penetrate the surface.

SPECIFIER NOTE: Treated surfaces will dry to touch within 1 hour. Protect surfaces from rainfall for a minimum of 6 hours following treatment. Treated surfaces will be ready for pedestrian and vehicle traffic in 24 hours. Water repellency of treated surfaces will increase for up to 14 days after application.

Cleanup: clean tools, equipment and surfaces affected by over spray with soap and warm water.