

DESCRIPTION AND USE

Consolideck® 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 horizontal and vertical surfaces from moisture intrusion and chemical attack of chloride salts.

In coastal areas, Saltguard® WB protects against salt air by screening chlorides from penetrating through concrete to the reinforcing steel. Saltguard® WB reduces rebar corrosion and surface spalling caused by water-carried salts. Use Saltguard® WB on horizontal surfaces such as driveways, sidewalks, tile or brick pavers. Provides excellent protection for retaining walls, bridge pilings and other vertical areas exposed to deicing salts.

Saltguard® WB is a ready-to-use effective alternative to conventional solvent-based silanes and siloxanes. Saltguard® WB penetrates and

chemically bonds deep within the concrete or masonry substrate to provide long-lasting protection against moisture intrusion and water-related staining or deterioration. Properly applied, Saltguard® WB produces no surface film. Treated surfaces keep their natural breathing characteristics and natural appearance.

ADVANTAGES

- Penetrates to produce long-lasting protection on vertical or horizontal surfaces.
- Water-based formula minimizes explosion and fire hazards associated with alcohol- or solvent-based water repellents.
- Easy soap-and-water cleanup from window glass, window frames and application equipment.
- Low odor reduces risk of application to occupied buildings.
- Alkaline stable – suitable for new “green” concrete, 14-28 days old.
- Treated surfaces “breathe” – does not trap moisture.
- Effective protection against deicing salts and salt air.
- Complies with all known national, state and district AIM VOC regulations.

Limitations

- Will not prevent water penetration through structural cracks, defects or open joints.
- Water repellency of treated surfaces will increase for up to 14 days after application.

TYPICAL TECHNICAL DATA

FORM: White, milky liquid
 SPECIFIC GRAVITY: 0.990
 ACTIVE CONTENT*: 10%
 pH: 7-8
 WT./GAL.: 8.24 lbs.
 FLASH POINT: >200°F (> 93°C)
 FREEZE POINT: 32°F (0°C)

VOC Information

US EPA: maximum VOC content 600 g/L
 CARB SCM Districts: maximum VOC content 120 g/L
 SCAQMD: maximum VOC content 120 g/L
 Maricopa County, AZ: maximum VOC content 400 g/L
 NEOTC: maximum VOC content 120 g/L

PERFORMANCE TESTS

Laboratory testing has shown this product to be a singularly effective general purpose water repellent/chloride screen.

NCHRP 244 Series II Reduction of Water Absorption
 (compared to untreated control) 89%

NCHRP 244 Series IV Reduction in Total Chloride Ion Concentration
 (as compared to untreated control specimens) 91%

Saltguard® WB is recommended for these substrates. Always test. Coverage is in sq.ft./m. per gallon.

Substrate	Type	Use?	Coverage
Architectural Concrete Block*	Burnished	yes	30-100 sq.ft. 3-9 sq.m.
	Smooth	yes	
	Split-faced	yes	
	Ribbed	yes	
Concrete	Brick	yes	150-300 sq.ft. 14-28 sq.m.
	Tile	yes	
	Precast Panels	yes	
	Pavers	yes	
	Cast-in-place	yes	
Fired Clay	Brick	yes	100-175 sq.ft. 9-16 sq.m.
	Tile	yes	
	Terra Cotta	yes	
	Pavers	yes	
Marble, Travertine, Limestone	Polished	no	NA
	Unpolished	no	NA
Granite	Polished	no	NA
	Unpolished	no	NA
Sandstone	Unpolished	yes	100-175 sq.ft. 9-16 sq.m.
Slate	Unpolished	no	NA

*Sure Klean® Custom Masonry Sealer or Weather Seal Blok-Guard® & Graffiti Control may be more appropriate.

Always test to ensure desired results. Coverage estimates depend on surface texture and porosity.

Saltguard® WB

AASHTO T259/260	
Chloride penetration	2.8
Total chlorides, pcy	2.1
ASTM C 140 Reduction of Water Absorption (compared to untreated control)	92%
ASTM C 67 Reduction of Water Absorption (compared to untreated control)	94%
ASTM E 514 Wind-Driven Rain Penetration (percent reduction of control)	89%
Surface Deterioration/Discoloration	None
Penetration (depending on substrate)	1-10 mm
Resistance To:	
•Sunlight	Excellent
•Alkalinity	Excellent
Surface Appearance (after application)	No change

Saltguard® WB is not suitable for application to synthetic resin paints, gypsum, or other nonmasonry surfaces. The product may not be suitable for surfaces to receive paints or coatings. Always test for compatibility.

PREPARATION

Protect people, property, vehicles, and (to minimize cleanup) all nonmasonry surfaces that may come into contact with the product, spray, wind drift or fumes. Protect and/or divert pedestrian and auto traffic.

Though Saltguard® WB has very little odor, avoid exposing building occupants to fumes. Maintain adequate ventilation when working on interior surfaces.

Thoroughly clean the surface using the appropriate Sure Klean® or Enviro Klean® product. Remove any curing compound or previous sealer. Contaminants on the surface, including curing compounds and previous sealers, may interfere with Saltguard® WB's ability to penetrate the surface. Though Saltguard® WB may be applied to slightly damp surfaces, best performance is achieved on clean, visibly dry and absorbent surfaces. Excessive moisture inhibits penetration and reduces the service life and performance of the treatment. Clean newly constructed and repointed surfaces before application. Saltguard® WB won't impair adhesion of most sealing and caulking compounds. Always test for compatibility.

Protect window glass before using Saltguard® WB. Sure Klean® Strippable Masking is effective protection for use with this product. If protecting windows is impractical, follow these steps:

1. Clean window glass thoroughly before applying Saltguard® WB to nearby concrete or masonry.
2. Don't use Saltguard® WB in wind or when air or surface temperatures are hotter than 95°F (35°C).
3. Try to keep Saltguard® WB off the glass.

4. After treated surfaces have been protected from water for 6 hours, if product is on window glass, clean as soon as possible with soap and warm water. Alternatively use Enviro Klean® 2010 All Surface Cleaner to remove dried residues within 3-5 days.

Surface and Air Temperatures

Must be at least 40°F (4°C) during application and above 40°F (4°C) for 8 hours following. If freezing conditions exist before application, let masonry thaw thoroughly. Subfreezing temperatures will freeze/crystallize Saltguard® WB, inhibiting penetration and significantly impairing results. Surface and air temperatures should not exceed 95°F (35°C). Higher temperatures evaporate the water carrier, reducing penetration.

Equipment

Apply with brush, roller or low-pressure spray (<50 psi). Fan tips are recommended for sprayers. Avoid atomization of material.

APPLICATION

Before use, read "Preparation" and "Safety Information."

ALWAYS TEST each type of surface for suitability and results before overall application. Test using the following application instructions. Let test dry thoroughly before inspection. Mix well before applying.

Dilution

DO NOT DILUTE OR ALTER MATERIAL, or use for purposes other than specified.

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 4-8" (15-20 cm) rundown below the spray contact point. Let the first application penetrate for 5-10 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 5-10 minutes. Brush out heavy runs and drips that don't penetrate.

Horizontal Application Instructions

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

Dense Surface Application Instructions

Apply a single coat. Use enough Saltguard® WB to completely wet the surface without creating drips, puddles or rundown. DO NOT OVER APPLY. Test for application rate.

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. Many surfaces may require several days to achieve full water repellent effectiveness.

On smooth, trowel-finished concrete, such as garage floors, Stand Off® SLX100 or Sure Klean® Weather Seal SL100 may be more appropriate. ALWAYS TEST.

Clean Up

Clean tools, equipment, and surfaces affected by overspray with soap and warm water.

Paint Adhesion

Surfaces treated with Saltguard® WB may be coated with silicone emulsion paints and many oil-base paints. Always test to assure adhesion. Adhesion may be improved if surface is pressure-rinsed and allowed to dry before application. Adhesion of some cementitious coatings, plaster, stucco, etc., may be adversely affected. Such surface treatments should be installed and allowed to thoroughly cure before installation of Saltguard® WB. Always test to verify compatibility between Saltguard® WB and other proposed surface treatments.

SAFETY INFORMATION

Caution. May cause eye and skin irritation. For use by professional applicators only. Keep out of reach of children.

Precautions

Contains: Oligomeric alkyl alkoxy siloxane. Avoid eye contact. Wear safety glasses or splash goggles depending on application procedures. Avoid prolonged skin contact. If skin is sensitive or becomes irritated, wear rubber gloves. Wear long-sleeved work clothing or splash-resistant clothing as needed. Do not breathe mists. May cause respiratory irritation. Wear a NIOSH-approved dust/mist respirator as needed. Wash thoroughly after handling. Generates ethyl and methyl alcohol during curing. Maintain adequate ventilation inside.

Storage and Handling: Store and transport upright with lid tightly in place. Store in a cool, dry place. Keep from freezing. Do not reuse or remove the label. **Do not alter,** dilute product or use for applications other than specified. **If spilled,** keep from drains and soil. Absorb with inert media. Dispose of contaminated absorbent, container and product in accordance with local, state and federal regulations. Read the MSDS and label for additional cautionary information.

First Aid

Ingestion: Call a physician, emergency room or poison control center immediately for instruction on properly inducing vomiting. Get medical assistance.

Eye Contact: Rinse thoroughly for 15 minutes. Get immediate medical assistance.

Skin Contact: Remove contaminated clothing and rinse thoroughly for 15 minutes. Seek medical assistance if persistent irritation develops. Launder contaminated clothing before reuse.

Inhalation: Seek medical attention if irritation develops.

24 Hour Emergency Information: INFOTRAC at 800-535-5053

Shelf Life: 1 year from the date of manufacture in tightly sealed, unopened container.

WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose. PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care - technical support. Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at www.prosoco.com, for the name of the Consolideck® representative in your area.

*PROSOCO Technical Data for reactive, penetrating protective treatments reports Active Content – a calculated value based on raw materials used in the formulation. Some active content is consumed as the treatment polymerizes, reacts and bonds with the substrate.

ASTM D 5095 - Standard Test Method for Determination of the Nonvolatile Content in Silanes, Siloxanes and Silane-Siloxane Blends Used in Masonry Water Repellent Treatments – adds a catalyst to reactive treatments to measure total solids. Total solids for this product is 8%.

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