

**CONSOLIDECK®**  
HIGH PERFORMANCE CONCRETE

# Saltguard® WB

*deeply penetrating water & salt barrier for concrete*

## OVERVIEW

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. 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. 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 de-icing 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.

## SPECIFICATIONS

For all PROSOCO product specifications visit [www.prosoco.com](http://www.prosoco.com) and click on “SpecBuilder” or “Solution Finder.”

## 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 de-icing salts and salt air.
- Complies with all known national, state and district AIM VOC regulations.

## Limitations

- Not suitable for protecting surfaces subject to constant water spray (car washes).
- Not suitable for application to coated surfaces or surfaces previously treated with water repellents or liquid hardeners.
- 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.
- Saltguard® WB is not suitable for application to synthetic resin paints, gypsum, or other non masonry surfaces. The product may not be suitable for surfaces to receive paints or coatings. Always test for compatibility.

## REGULATORY COMPLIANCE

### VOC Compliance

Consolideck® Saltguard® WB is compliant with the following national, state and district AIM VOC regulations

- US Environmental Protection Agency
- California Air Resources Board SCM Districts
- South Coast Air Quality Management District
- Maricopa County, AZ
- Northeast Ozone Transport Commission

## TYPICAL TECHNICAL DATA

FORM	white liquid
SPECIFIC GRAVITY	0.997
pH	7–8
WT/GAL	8.24 lbs
ACTIVE CONTENT	10%
TOTAL SOLIDS	9%
VOC CONTENT	<400 g/L <120 g/L low solids
FLASH POINT	>212°F (>100°C)
FREEZE POINT	32°F (0°C)
SHELF LIFE	1 year in unopened, factory-sealed container



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## PERFORMANCE TESTS

Laboratory testing has shown this product to be a singularly effective general purpose water repellent/chloride screen. All tests were compared to untreated control.

### NCHRP 244 Series II

- Reduction of Water Absorption 88%
- Reduction in Chloride Ion Absorption 86%

### ASTM E 514 Wind-Driven Rain

- Reduction in Water Absorption 91%

### ASTM C 672 Scaling Resistance Exposure To De-Icing Chemicals & Freeze/Thaw Cycles (50 cycles)

- Cumulative Mass Loss no mass loss
- Scaling Resistance no scaling

### Resistance To:

- Sunlight Excellent
- Alkalinity Excellent

### Surface Appearance

(after application) No change

## PREPARATION

Protect people, property, vehicles and all surfaces not set for treatment from spray, wind drift and 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 Consolideck®, 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. Do not 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 for 8 hours following. Surface and air temperatures should not exceed 95°F (35°C). Higher temperatures evaporate the water carrier, reducing penetration.

If freezing conditions exist before application, let masonry thaw thoroughly. Subfreezing temperatures will freeze/crystallize Saltguard® WB, inhibiting penetration and significantly impairing results.

## Equipment

Apply with brush, roller or low-pressure spray (<50 psi). Fan tips are recommended for sprayers. Do not atomize.

## ALWAYS TEST

**ALWAYS TEST** a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application.

## Storage and Handling

Store in a cool, dry place. Always seal container after dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperature of 45–100°F (7–38°C). Keep from freezing. Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

## APPLICATION

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

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

## Dilution

Do not dilute or alter material, or use for purposes other than specified. Mix well before applying.

## Coverage Rates

Coverage varies based on substrate porosity and texture. Always test.

- 100–300 square feet per US gallon
- 9–28 square meters per US gallon



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## Vertical Application Instructions

For best results, apply “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. NOTE: When spray applying to fluted architectural block, spray in an “overlapping X pattern” for complete coverage of recessed surfaces.

**Brush or Roller:** apply uniformly. Saturate the surface. Let product penetrate for 5-10 minutes. Brush out heavy runs and drips that do not penetrate.

## Horizontal Application Instructions

1. Apply in a single saturating coat. Use enough to keep the surface wet for 2–3 minutes before penetrating. Do not over apply.
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 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 their full water repellency properties.

## Cleanup

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

## Paint Adhesion

Surfaces treated with Saltguard® WB may be coated with silicone emulsion paints and many oil-based 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

Consolideck® Saltguard® WB is a water-based product. Use appropriate safety equipment and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

### First Aid

**Ingestion:** 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.

**Inhalation:** Seek medical attention if irritation develops.

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

## BEST PRACTICES

Use the appropriate Consolideck® concrete prep cleaner to remove contaminants from existing concrete before applying Saltguard® WB. Stains and soiling may interfere with Saltguard® WB penetration.

For recommendations on removing stains and coatings, visit [www.prosoco.com](http://www.prosoco.com), call PROSOCO technical Customer Care toll-free at 800-255-4255 or contact your local PROSOCO field representative.

Always saturate the surface uniformly. Give the treatment a few minutes to penetrate, but brush out pools and puddles quickly.

Never go it alone. If you have problems or questions, contact your local PROSOCO distributor or field representative. Or call PROSOCO technical Customer Care, toll-free, at 800-255-4255.



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## **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](http://www.prosoco.com), for the name of the Consolideck® representative in your area.