

**CONSOLIDECK®**  
HIGH-PERFORMANCE CONCRETE

# 244 Salt Screen Additive

*pre-measured chloride screen additive for Consolideck® LS® or LS/CS®*

## OVERVIEW

Consolideck® 244 Salt Screen Additive is a pre-measured, water-based, VOC compliant silane/siloxane water repellent and chloride screen concentrate specially formulated for mixing with Consolideck® LS® or LS/CS®.

When combined with LS® or LS/CS®, 244 Salt Screen Additive hardens, dustproofs and protects horizontal and vertical concrete surfaces from abrasion, moisture intrusion, and chloride salts – all in one easy application. Low odor and alkaline stable, 244 Salt Screen Additive is ideal for field or in-plant application to concrete masonry.

In coastal areas, Consolideck® LS or LS/CS® mixed with 244 Salt Screen Additive provides protection against salt air by screening chlorides from penetrating through concrete to the reinforcing steel. Properly applied, the product reduces rebar corrosion and surface spalling caused by water-carried salts. Use on horizontal surfaces such as driveways, sidewalks, parking garages and other concrete masonry. Provides excellent protection for retaining walls, bridge pilings and other vertical areas exposed to de-icing salts.

Used with Consolideck LS® or LS/CS®, 244 Salt Screen Additive is an effective alternative to conventional solvent-based silanes and siloxanes. Properly diluted product penetrates and chemically bonds deep within the concrete substrate to provide long-lasting protection against moisture intrusion and water-related staining or deterioration. When properly applied, no surface film is produced. Treated surfaces keep their natural breathing characteristics and natural appearance.

## SPECIFICATIONS

For all PROSOCO product specifications, visit [www.prosoco.com](http://www.prosoco.com)

## ADVANTAGES

- One easy application provides hardening, dustproofing, and protection from abrasion, moisture intrusion, and chloride salts.
- Effective protection against de-icing salts and salt air.
- Water-based formula minimizes explosion and fire hazards associated with alcohol- or solvent-based water repellents.
- Low odor reduces risk of application around occupied buildings.
- Alkaline stable – suitable for new “green” concrete, 14–28 days old.
- Treated surfaces “breathe” – does not trap moisture.
- Complies with all known national, state and district AIM VOC regulations.

## Limitations

- 244 Salt Screen Additive must be mixed with Consolideck® LS® or LS/CS® before application and applied within 24 hours.
- Not for use on natural stone.
- 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.
- Will not prevent water penetration through structural cracks, defects or open joints.
- 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.
- Not recommended for below-grade application.

## REGULATORY COMPLIANCE

### VOC Compliance

Consolideck® 244 Salt Screen Additive is compliant with the following national, state and district 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, opaque liquid, low odor
SPECIFIC GRAVITY	0.96 (concentrate)
pH	6–9 (concentrate)
WT/GAL	7.99 lbs (concentrate)
ACTIVE CONTENT	50% (concentrate)
TOTAL SOLIDS	42% (concentrate)
VOC CONTENT	<25 g/L (diluted)
FLASH POINT	>212°F (>100°C)
FREEZE POINT	32°F (0°C)
SHELF LIFE	1 year in tightly sealed, unopened container

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## PERFORMANCE TESTS

All tests were compared to untreated control.

### NCHRP 244 Series II

- Reduction in Chloride Ion Absorption ..... 90%

### NCHRP 244 Series IV

- Reduction in Chloride Ion Absorption after weathering ..... 88%

### 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

### AASHTO T-260

Reduction in Chloride Ion Absorption After 21 Day Immersion in Saltwater ..... 96%

## PREPARATION

Protect people, property, windows, vehicles and all surfaces not set for treatment from spray, wind drift and fumes. Protect and/or divert pedestrian and auto traffic. Though the product has very little odor, avoid exposing building occupants to fumes. Maintain adequate ventilation.

Thoroughly clean the surface using the appropriate Consolideck® product. Remove any curing compound or previous sealer. Contaminants on the surface, including curing compounds and previous sealers, may interfere with the product's ability to penetrate the surface.

Though properly mixed 244 Salt Screen Additive 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. 244 Salt Screen Additive will not impair adhesion of most sealing and caulking compounds. Always test for compatibility.

## Surface & 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 concrete thaw thoroughly. Subfreezing temperatures will freeze/crystallize 244 Salt Screen Additive, inhibiting penetration and significantly impairing results.

## Equipment

May be applied using brush, roller or low-pressure spray applicator (<50 psi).

When spray applying, use fan-type spray tips and adjust pressure to avoid atomization of the material. Sprayer should be fitted with stainless steel or brass fittings and gaskets suitable for handling alkaline solutions (rubber or viton). Avoid contact with metal hopper if using airless spray equipment.

Brushes and rollers should be of nylon or other synthetic materials resistant to alkaline solutions.

## Storage and Handling

Store in a cool, dry place with adequate ventilation. 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). Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

## 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.

## APPLICATION

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

**ALWAYS TEST** each type of surface for suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let test area dry thoroughly before inspection.

## Dilution

**NOTE:** 244 Salt Screen Additive must be mixed with Consolideck® LS® or LS/CS® before application. Mixed product must be applied within 24 hours.

Shake the concentrated product container well to mix thoroughly. Combine with Consolideck® LS® or LS/CS® in the following dilutions to make ready-to-use product:

- 1-quart 244 Salt Screen Additive to 1-gallon LS® or LS/CS® produces 1.25 gallons of ready-to-use product
- 1-gallon 244 Salt Screen Additive to 4-gallons LS® or LS/CS® produces 5 gallons of ready-to-use product
- 5-gallons 244 Salt Screen Additive to 20-gallons of LS® or LS/CS® produces 25 gallons of ready-to-use product

Mix well before and during each application.

When environmental conditions cause rapid drying, mix 244 Salt Screen Additive with Consolideck® LS/CS®.

For maximum densifications, mix with Consolideck® LS®.

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## Typical Coverage Rates

Coverage varies based on substrate porosity and texture. Always test. Coverage rates based on 1-gallon of ready-to-use product. DO NOT OVER APPLY.

- 200–700 square feet per US gallon
- 20–65 square meters per US gallon.

## Application Instructions

Mix well before and during each application.

### Vertical Surfaces: Sprayer

For best results, apply a thin single saturating coat to a thoroughly dry surface. When spraying, saturate from the bottom up. Use enough to create a 4" to 6" rundown below the spray contact point.

### Vertical Surface: Brush or Roller

Minimize overlap. Saturate the surface. Brush out heavy runs and drips that do not penetrate.

### Horizontal Surfaces

Apply a single, saturating coat so the surface stays wet for a few minutes. Thoroughly broom out any pools or puddles that do not completely penetrate the surface. Do not let puddles stay on surface.

### Porous Surfaces

Apply a single saturating coat. Let the first application penetrate the surface. Re-saturate within 5 to 10 minutes. Less material will be required on the second application.

### Dense Surfaces

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. Buff off excess material as soon as possible after application.

## Drying Time

Treated surfaces will dry to the 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.

## Clean Up

Before product dries, clean tools and equipment with fresh water. Immediately wash off over spray from glass, aluminum, polished or other surfaces with fresh water.

## Paint Adhesion

Surfaces treated with properly mixed 244 Salt Screen Additive 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 product application. Always test to verify compatibility between 244 Salt Screen Additive and other proposed surface treatments.

## SAFETY INFORMATION

Consolideck® 244 Salt Screen Additive is a water carried product. Use appropriate safety and job site controls during application and handling. Read the full label for precautionary instructions before use.

### First Aid

**Ingestion:** Rinse mouth with water. DO NOT induce vomiting. Get immediate medical attention.

**Eye Contact:** Remove contact lenses. Immediately flush eyes for 15 minutes in clear, running water while holding eyelids open. Seek immediate medical assistance.

**Skin Contact:** Wash contacted area with soap and water. If irritation persists, seek medical attention.

**Inhalation:** Remove affected person to fresh air. If breathing difficulties persist, seek medical attention.

**24-Hr Emergency Information:**  
**INFOTRAC at 800-535-505**

## BEST PRACTICES

Thoroughly clean the surface using the appropriate Consolideck® product. Remove any curing compound or previous sealer. Contaminants on the surface, including curing compounds and previous sealers, may interfere with the product's ability to penetrate the surface.

If freezing conditions exist before application, let concrete thaw thoroughly. Subfreezing temperatures will freeze/crystallize 244 Salt Screen Additive, inhibiting penetration and significantly impairing results.

May be applied using brush, roller or low-pressure spray applicator (<50 psi).

Mix well before and during each application.

When environmental conditions cause rapid drying, mix 244 Salt Screen Additive with Consolideck® LS/CS®.

For maximum densifications, mix with Consolideck® LS®.

**Consolideck® 244 Salt Screen Additive must be mixed with Consolideck® LS® or LS/CS® before application. Mixed product must be applied within 24 hours.**

Surfaces treated with properly mixed 244 Salt Screen Additive may be coated with silicone emulsion paints and many oil-based paints. Always test to assure adhesion.

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.