

## Consolideck® 244 Salt Screen Additive 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](mailto:CustomerCare@prosoco.com)

### Product Description

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 in one easy application. Low odor and alkaline stable, 244 Salt Screen Additive is ideal for field or in-plant treatment to concrete masonry.

When 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.

In coastal areas, Consolideck® 244 Salt Screen Additive provides protection against salt air by screening chlorides from penetrating through concrete to the reinforcing steel. When properly applied, the product reduces rebar corrosion and surface spalling caused by water-carried salt. 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 surfaces exposed to de-icing salts.

### Typical Technical Data

FORM: White, opaque liquid, low odor

SPECIFIC GRAVITY: 0.96 (concentrate)

pH: 6 to 9 (concentrate)

WEIGHT/GALLON: 7.99 pounds (concentrate)

ACTIVE CONTENT: 50 percent (concentrate)

TOTAL SOLIDS: 42 percent (concentrate)

VOC CONTENT: less than 25 grams per Liter (diluted)

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

FREEZE POINT: 32 degrees F (0 degrees C)

SHELF LIFE: 1 year in tightly sealed, unopened container

**Limitations**

- 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 to 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.
- 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 514 Wind-Driven Rain (reduction in water absorption) 91 percent
- ASTM C 672 Scaling Resistance Exposure to De-Icing Chemicals and Freeze/Thaw Cycles – no mass loss; 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 percent

*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 Consolideck® 244 Salt Screen Additive. Refer to the Product Data Sheet for additional information about application of 244 Salt Screen Additive. 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® to produce 1.25 gallons of ready-to-use product
- 1 gallon 244 Salt Screen Additive to 4 gallons of LS® or LS/CS® to produce 5 gallons of ready-to-use product
- 5 gallons of 244 Salt Screen Additive to 20 gallons of LS® or LS/CS® to produce 25 gallons of ready-to-use product

SPECIFIER NOTE: 244 Salt Screen Additive must be mixed with Consolideck® LS® or LS/CS® before application.

SPECIFIER NOTE: 244 Salt Screen Additive must be applied within 24 hours.

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

SPECIFIER NOTE: For maximum densification, mix with Consolideck® LS®.

**Vertical Spray Application Instructions**

Mix well before and during each application. For best results, apply in a thin single saturating coat to a thoroughly dry surface. Saturate from the bottom up. Use enough to create a 4 to 6 inch rundown below the spray contact point.

**Vertical Brush/Roller Application Instructions**

Mix well before and during each application. Minimize overlap. Saturate the surface. Brush out heavy runs and drips that do not penetrate.

**Horizontal Surfaces**

Mix well before and during each application. 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 the surface.

**Porous Surfaces**

Mix well before and during each application. 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**

Mix well before and during each application. Apply a single coat. Use enough to completely wet the surface without creating drips, puddles or rundown. Do not over apply. Buff off excess material as soon as possible after application.

SPECIFIER NOTE: Treated surfaces will dry to touch within 1 hour. Protect surfaces from rainfall for a minimum of 6 hours following treatment.

SPECIFIER NOTE: 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:** before product dries, clean tools, equipment and surfaces fresh water. Immediately wash off over spray from glass, aluminum, polished or other surfaces with fresh water.