Consolideck® LS/CS® Concrete Sealer & Densifier 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 SDS for additional recommendations and for safety information.

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

# Test Area

Test a representative area of no less than 10 ft. by 10 ft. (and no more than 10% of the total floor area) to confirm surface preparation procedures, coverage rate, reaction time, finished appearance, etc. Use the manufacturers’ application instructions. Let test area dry thoroughly before inspection. Get owner’s approval before proceeding. Keep test area available for comparison throughout the project.

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

# Manufacturer

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# Product Description

Consolideck® LS/CS® provides a safe, economical alternative to conventional sodium- or potassium silicate surface hardeners. This penetrating silicate treatment reacts with concrete to produce insoluble calcium silicate hydrate within the concrete pores. Consolideck® LS/CS® is appropriate for freshly troweled “green” concrete, or existing floors of any age. Hardening/densifying with LS/CS® renders concrete floors dustproof.

Unlike conventional hardeners which deposit high concentrations of sodium or potassium salts, Consolideck® LS/CS® will not trigger or contribute to surface ASR (Alkali Silicate Reaction).

# Typical Technical Data

FORM: Clear to cloudy, colorless, odorless liquid

SPECIFIC GRAVITY: 1.05

pH: 11.0

WEIGHT PER GALLON: 8.6 pounds

ACTIVE CONTENT: 6 percent

TOTAL SOLIDS: 6 percent

FLASH POINT: not applicable

FREEZE POINT: 32 degrees Fahrenheit (0 degrees Celsius)

SHELF LIFE: 2 years in tightly sealed, unopened container.

VOC CONTENT: 0 grams per Liter. Complies with all known national, state and district AIM VOC regulations.

# Limitations

None

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® LS/CS®. Refer to the Product Data Sheet for additional information about application of Consolideck® LS/CS®. Do not dilute or alter.

SPECIFIER NOTE: Allowing excess material to puddle on the floor will extend dry times and create white residues which must be removed immediately. Call 800-255-4255 for removal instructions.

**Application Instructions: Freshly Placed, Uncured Steel-Troweled Concrete**

1. After final finishing, soft cut control joints. Clean concrete of any dirt, residue or soft cut saw debris. Allow surface to dry.
2. Using a low pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles.
3. Use a clean, microfiber pad to spread the product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to eliminate puddles.
4. Allow treated surfaces to dry.
5. Immediately apply the specified curing compound or initiate the specified curing procedure.
6. When the curing process is complete, use an automatic floor scrubber equipped with cleaning pads or brushes appropriate for removal of accumulated construction soiling and surface residues. Avoid pads or brushes which may damage the finished floor.

SPECIFIER NOTE: To achieve additional shine and protection, apply PROSOCO’s LSGuard® or PolishGuard.

SPECIFIER NOTE: For improved resistance to water or oily stains with no change to surface appearance, apply PROSOCO’s Concrete Protector SB.

**Application Instructions: Cured, Steel Troweled Concrete**

1. The prepared surface must be clean, dry and absorbent, and must wet uniformly. Test surface absorbency with a light water spray. In hot, dry weather, pre-wet the concrete with fresh water. Allow any standing water to evaporate.
2. Using a low pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread the product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to eliminate puddles.
3. Allow treated surfaces to dry.
4. Remove any dried powder residue using a stiff broom, power sweeper or auto-scrubbing machine.
5. For immediate, enhanced shine, buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.

SPECIFIER NOTE**:** To achieve additional shine and protection, apply PROSOCO’s LSGuard® or PolishGuard.

SPECIFIER NOTE: For improved resistance to water or oily stains with no change to surface appearance, apply PROSOCO’s Concrete Protector SB.

**Application Instructions: Cured, Ground/Honed Concrete**

1. Sand, level or grind the concrete surface with a floor sander, orbital floor machine or diamond grinding equipment to achieve the desired exposure.
2. Remove all dust and debris using a floor-scrubbing machine and fresh water. Allow wet surfaces to dry.
3. Using a low pressure sprayer, apply a single coat of product sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread the product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to minimize puddles.
4. Allow treated surfaces to dry.
5. Remove any dried powder residue using a stiff broom, power sweeper or floor scrubbing machine.
6. If additional surface sheen is desired, buff or burnish the concrete surface in both directions with an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.

SPECIFIER NOTE: Conventional “keep wet/rinse” application methods may be used.

SPECIFIER NOTE**:** To achieve additional shine and protection, apply PROSOCO’s LSGuard® or PolishGuard.

SPECIFIER NOTE: For improved resistance to water or oily stains with no change to surface appearance, apply PROSOCO’s Concrete Protector SB.

**Application Instructions: Cured and Polished Concrete**

1. Sand, level or grind the concrete surface with a floor sander, orbital floor machine or diamond grinding equipment to achieve the desired exposure.
2. Remove all dust and debris using a floor-scrubbing machine and fresh water. Allow wet surfaces to dry.
3. Using a low pressure sprayer, apply a single coat of product sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread the product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5 to 10 minutes. Adjust rate of application to minimize puddles.
4. Allow treated surfaces to dry.
5. Remove any dried powder residue using a stiff broom, power sweeper or floor scrubbing machine.
6. Using progressively finer abrasive diamonds, continue polishing in consecutive levels to achieve the desired finish. Remove all polishing dust and debris using an auto-scrubbing machine.

SPECIFIER NOTE: To achieve additional shine and protection, apply Consolideck® LSGuard® or PolishGuard.

SPECIFIER NOTE: For improved resistance to water or oily stains with no change to surface appearance, apply PROSOCO’s Concrete Protector SB.

# Cleanup

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