

Consolideck® LS® 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 MSDS 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: PROSOCO, Inc., 3741 Greenway Circle, Lawrence, KS 66046. Phone: (800) 255-4255; Fax: (785) 830-9797. E-mail: CustomerCare@prosoco.com

Installer: Northwest Floor Care, Inc. 2920 Malmo Drive, Arlington Heights, IL 60005, Phone (847) 640-0390, Fax: (847) 640-1050 Contact: Jim Muzzillo Jr., email: jmuzzillojr@northwestfloor.com

Product Description

Consolideck® LS® is the premium sealer, hardener and densifier for concrete surfaces. This penetrating lithium silicate treatment reacts with the concrete to produce insoluble calcium silicate hydrate within the concrete pores. Treated surfaces resist damage from water and surface abrasion. The increased surface hardness reduces dusting and simplifies maintenance, producing a cleaner, healthier environment.

Consolideck® LS® will not trigger or contribute to surface ASR (alkali silicate reaction).

Typical Technical Data

FORM: Clear, water-like liquid

SPECIFIC GRAVITY: 1.10

pH: 11.0

WEIGHT/GALLON: 9.2 pounds

ACTIVE CONTENT: 14.5 percent

TOTAL SOLIDS: 14.5 percent

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

FLASH POINT: Not flammable

FREEZE POINT: 32 degrees Fahrenheit (0 degrees Celsius)

SHELF LIFE: 2 years in unopened, factory-sealed container

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Specifier Note: Paragraphs below are for PART 3 EXECUTION, Installation.

Preparation

Surfaces to be treated must be clean, dry and absorbent. Test surface absorbency with a light water spray. If surface does not wet uniformly, use the appropriate Consolideck® surface preparation cleaner or mechanical process to remove remaining surface contaminants. Read “Preparation” and “Safety Information” sections in the Manufacturer’s Product Data Sheet for Consolideck® LS®. Refer to the Product Data Sheet for additional information about application of Consolideck® LS®. Do not dilute or alter.

Application

Calculating Target Coverage Rate

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Test a representative section of the prepared surface to calculate the Target Coverage Rate.

1. Prepare the test section in accordance with manufacturer’s published preparation information. Surface must be clean, dry and absorbent. Surfaces should wet uniformly.
2. Pour one gallon of product into a clean pump up sprayer. Lightly apply sufficient product to wet the surface without producing puddles.
3. Use a clean microfiber pad to spread the product and ensure uniform wetting. Scrubbing is not necessary.
4. If surfaces dry immediately, increase your rate of application. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.
5. Repeat steps 2 through 4 as needed to determine the correct rate of application. Measure the test area to establish the Target Coverage Rate per gallon.

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 of Consolideck® LS®. Lightly apply sufficient product 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.
4. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles. 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

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construction soiling and surface residues. Avoid pads or brushes which may damage the finished floor.

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.

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 Consolideck® SLX100® Water & Oil Repellent, Consolideck® Concrete Protector WB or Consolideck® 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.

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. Apply a single coat using a low pressure sprayer. Apply sufficient product 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.
3. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.
4. Allow treated surfaces to dry.
5. Remove any dried powder residue using a stiff broom, power sweeper or auto-scrubbing machine.
6. 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.

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SPECIFIER NOTE: For improved resistance to water or oily stains with no change to surface appearance, apply Consolideck® SLX100® Water & Oil Repellent, Consolideck® Concrete Protector WB or Consolideck® 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.

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 an auto-scrubbing machine and fresh water. Allow wet surfaces to dry.
3. Using a low pressure sprayer apply sufficient product 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.
4. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5–10 minutes. Adjust rate of application to minimize puddles. 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.

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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 Consolideck® SLX100® Water & Oil Repellent, Consolideck® Concrete Protector WB or Consolideck® 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.

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.

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2. Remove all dust and debris using an auto-scrubbing machine and fresh water. Allow wet surfaces to dry.
3. Using a low pressure sprayer apply sufficient product 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.
4. If surfaces dry immediately, increase the rate of application. Surface should remain wet for 5–10 minutes. Adjust rate of application to minimize puddles. Allow treated surfaces to dry.
5. Using progressively finer abrasive diamonds, continue polishing in consecutive levels to achieve the desired finish. Remove all polishing dust and debris.

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.

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SPECIFIER NOTE: For improved resistance to water or oily stains with no change to surface appearance, apply Consolideck® SLX100® Water & Oil Repellent, Consolideck® Concrete Protector WB, or Consolideck® 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.