Consolideck® BD1 Concrete 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 minimum 4 ft. by 4 ft. area. Use manufacturer’s application instructions. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let the test panel dry 3 to 7 days before inspection. Keep test panels available for comparison throughout the cleaning 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

# Product Description

Consolideck® BD1 is a blend of silicates specifically formulated and tested to provide superior performance on Type 1L cement mixes. BD1 is ideal for use on steel-troweled or burnished concrete floors. BD1 is a penetrating, economical treatment that reacts with the concrete to quickly create a harder, denser surface. Consolideck® BD1 renders concrete floors dustproof. Unlike conventional hardeners which deposit high concentrations of sodium or potassium salts, BD1 will not trigger or contribute to surface Alkali Silicate Reaction (ASR). BD1 is safer and easier to apply than conventional sodium silicate hardeners.

# Typical Technical Data

FORM: clear to cloudy, odorless liquid

SPECIFIC GRAVITY: 1.04

pH: 11.50

WEIGHT/GALLON: 8.69 pounds

TOTAL SOLIDS: 6 percent

VOC CONTENT: 0 grams per Liter

SHELF LIFE: 2 years in tightly sealed, unopened container

# Limitations

* Will not prevent water penetration through structural cracks, defects or open joints.

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. Do not dilute or alter. Use as supplied.

***Freshly Placed, Uncured Steel-Troweled Concrete***

1. After final finishing, soft cut control joints. Clean concrete of any dirt, residue or debris.
2. Using a low pressure sprayer, apply a single coat using sufficient product to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. Surface should remain wet for 10 to 15 minutes. Adjust rate of application to avoid puddles.
3. Allow treated surfaces to dry.
4. Immediately apply the specified curing compound or initiate the specified curing procedure.
5. When curing 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 flood. This will further enhance the sheen produced by BD1.

SPECIFIER NOTE: For additional shine and protection, apply PROSOCO’s LSGuard® or PolishGuard according to label instructions.

SPECIFIER NOTE: For improved resistance to water or oily stains, apply PROSOCO’s Concrete Protector SB according to label instructions.

***Cured, Steel Troweled Concrete***

SPECIFIER NOTE: For blanket-cured concrete, clean the surface using an autoscrubber and PROSOCO’s PreKlean as blankets are removed.

1. Surface must be clean, dry and absorbent, and must wet uniformly. Test surface absorbency with a light water spray. To slow dry times in hot, dry weather conditions, lightly pre-wet the concrete with fresh water and allow any standing water to evaporate.
2. Using a low pressure sprayer, apply a single saturating coat using sufficient product to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 10 to 15 minutes. Adjust application rate to eliminate puddles.
3. Allow treated surfaces to dry.
4. Remove dried powder residue using stiff broom, power sweeper or floor scrubbing machine.
5. For immediate, enhanced shine, buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnished equipped with an appropriate polishing pad. This is a dry buffing operation.

SPECIFIER NOTE: For additional shine and protection, apply Consolideck® LSGuard® or PolishGuard according to label instructions.

SPECIFIER NOTE: For improved resistance to water or oily stains, apply PROSOCO’s Concrete Protector SB according to label instructions.

***Cured, Ground/Honed Concrete***

1. Sand, level or grind the concrete surface with a floor sander, orbital floor machine or diamond grinder, as needed, to achieve desired exposure. Remove all dust and debris with a floor scrubbing machine and fresh water. Allow wet surfaces to dry. Surfaces must be clean and dry.
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 product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.
3. Allow treated surfaces to dry.
4. 4. Remove any dried powder residue using stiff broom, power sweeper or floor scrubbing machine.
5. 5. If additional surface sheen is desired, buff or burnish the 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: For additional shine and protection, apply Consolideck® LSGuard® or PolishGuard according to label instructions.

SPECIFIER NOTE: For improved resistance to water or oily stains, apply PROSOCO’s Concrete Protector SB according to label instructions.

***Cured and Polished Concrete***

1. Sand, level or grind the concrete surface with a floor sander, orbital floor machine or diamond grinder, as needed, to achieve desired exposure. Remove all dust and debris with a floor scrubbing machine and fresh water. Allow wet surfaces to dry. Surfaces must be clean and dry.
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 product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.
3. Allow treated surfaces to dry.
4. Remove any dried powder residue using stiff broom, power sweeper or floor scrubbing machine.
5. Using progressively finer abrasives, continue diamond polishing in consecutive steps to achieve the desired finish. Remove all polishing dust and debris.

SPECIFIER NOTE: For additional shine and protection, apply Consolideck® LSGuard® or PolishGuard according to label instructions.

SPECIFIER NOTE: For improved resistance to water or oily stains, apply PROSOCO’s Concrete Protector SB according to label instructions.

# Cleanup

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.

# FINAL RESULT

The floor is ready to use when dry. Surfaces exhibit reduced water absorption upon drying and maximum water resistance will develop over 7 days. Surface hardness and sheen often increase over time and with proper maintenance.