



PROSOCO®

Consolideck®

CONCRETE FLOORING PRODUCTS

Blended Densifier

Consolideck® Blended Densifier is a blend of silicates designed specifically for steel-troweled or burnished concrete floors. This penetrating, economical treatment reacts with the concrete to quickly create a harder, denser surface.

Blended Densifier is safer and easier to apply than conventional sodium silicate hardeners.

ADVANTAGES

- Easy, one-step application. No scrubbing. No flushing. No caustic wastewater.
- Specifically designed for steel-troweled, power-troweled or burnished concrete finishes.
- Penetrates and reacts quickly to produce better initial and ultimate hardness.
- Provides better abrasion resistance than conventional hardeners.
- Can be burnished for a quick sheen.
- Breathable and UV-stable. Will not yellow, discolor, peel or flake.
- VOC- Compliant. Non-flammable. Non-toxic. Low-odor.
- Cures quickly. Floors can be opened to traffic once dry.
- Treated surfaces are easier to maintain.
- May enhance or darken certain substrates.

Limitations

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

REGULATORY COMPLIANCE

VOC Compliance

Consolideck® Blended Densifier is compliant with the following national, state and district AIM VOC 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	Clear, colorless liquid
SPECIFIC GRAVITY	1.10
pH	11.5
WT/GAL	9.2 lbs
ACTIVE CONTENT	14%
TOTAL SOLIDS	14%
VOC CONTENT	0 g/L
FLASH POINT	not applicable
FREEZE POINT	32° F (0° C)
SHELF LIFE	2 years in tightly sealed, unopened container

SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job site controls during application and handling.

24-Hour Emergency Information:
INFOTRAC at 800-535-5053

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PREPARATION

Protect people, vehicles, property, plants and all surfaces not designated to receive Blended Densifier from the product, splash and wind drift. Use polyethylene or other proven protective material.

Do not apply to surfaces which are frozen, dirty or have standing water. Surfaces must be clean, dry and absorbent. Confirm surface absorbency with a light water spray – surfaces designated for treatment should wet uniformly. If the surface does not wet uniformly, use the appropriate Consolideck® surface preparation cleaner or mechanical process to remove remaining surface contaminants.

Blended Densifier is ideal for application to existing, cured concrete of any age. Surfaces must be clean and structurally sound. Remove all foreign materials including bond breakers, curing agents, surface grease and oil, and construction debris using the appropriate Consolideck® cleaners. Follow the appropriate cleaner with thorough water rinsing. Acid-stained concrete must be thoroughly neutralized and rinsed prior to application.

Application may begin as soon as prepared surfaces are dry.

Surface and Air Temperatures

Temperatures for application should be 40–100° F (4–38° C).

Equipment

Apply with low pressure sprayer or microfiber pad.

Storage and Handling

Store in a cool, dry place. 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 temperatures of 40–100°F (4–38°C). Keep from freezing. Do not double stack pallets. Dispose of in accordance with local, state and federal regulations.

APPLICATION

Read “Preparation” and the Safety Data Sheet before use. **ALWAYS TEST** a small area of each surface to confirm suitability, coverage rate and desired results before beginning overall

application. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let surface dry thoroughly before inspection.

Dilution & Mixing

Do not dilute or alter. Use as supplied. Stir or mix well before use.

Typical Coverage Rates

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Calculate the Target Coverage Rate by testing a representative section of the prepared surface using the published application instructions.

- 400–800 sq.ft. (37–74 sq.m.) per US gal

Application Instructions

Steel Troweled / Burnished Concrete

1. Clean concrete of any dirt or residue.
2. Using a low pressure sprayer, apply a single saturating coat of Blended Densifier. Apply sufficient material to wet the surface without producing puddles. Use a Consolideck® microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins.
3. Scrubbing is not necessary. Surface should remain wet for 10–15 minutes. Adjust rate of application accordingly. Allow treated surfaces to dry at least one hour.
4. Once dry, burnish with a high speed machine and diamond impregnated pad (800 grit) to remove residue and enhance the surface.

For increased hardening, apply a second application of Blended Densifier and then burnish with a 1500 grit diamond impregnated pad once dry.

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

OR, for improved resistance to water or oily stains, apply Consolideck® SLX100® Water & Oil Repellent or Consolideck® Concrete Protector according to label instructions.

Application Instructions

Ground, Honed or Polished Concrete

1. Sand, level or grind the concrete surface with a floor sander, orbital floor machine or

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diamond grinding as needed to achieve desired exposure. Grind floor to 200 grit resin bond diamonds.

2. Remove all dust and debris using a floor scrubbing machine and fresh water. Allow surfaces to dry.
3. Using a low pressure sprayer, apply a single saturating coat of Blended Densifier. Apply sufficient material to wet the surface without producing puddles. Use a clean Consolideck® microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins.
4. Scrubbing is not necessary. Surface should remain wet for 10–15 minutes. Adjust application rate accordingly. Allow treated surfaces to dry at least one hour. Grind with 400 grit resins.

For increased hardening, apply a second light application of Blended Densifier. Allow to dry and continue polishing to desired level.

For additional shine and protection, apply Consolideck® LSGuard® or PolishGuard 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 Results

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

Maintenance

Remove surface dust and debris daily using a microfiber pad or dry dust mop. Dry buff with a high-speed burnisher to refresh gloss.

Regular maintenance cleaning will improve surface shine. Maintain the floor with Consolideck® DailyKlean or LSKlean.

Do not use acidic cleaners. Though Blended Densifier will improve the resistance of concrete surfaces to staining, acid concentrates and acidic foods may etch the floor and leave a residual stain. Clean up such spills quickly to minimize any potential for damage.

Though protective treatments simplify maintenance of concrete floors, all spills must be cleaned up in a timely manner.

If additional protective treatments or surface coatings are desired, consult Customer Care for recommendations by calling 1-800-255-4255.

BEST PRACTICES

Surfaces to be treated must be clean, dry and absorbent. Confirm surface absorbency with a light water spray. If surfaces designated for treatment do not wet uniformly, use the appropriate Consolideck® surface prep cleaner or mechanical process to remove remaining surface contaminants.

Spray applicators equipped with 0.5 gpm (gallon per minute) fan spray tip have proven effective for application of this product.

If the desired surface finish requires mechanical removal of the top layer of cement paste, best results are achieved by sanding or grinding the cured concrete surface to achieve a 50–200 grit finish before applying Consolideck® Blended Densifier. The increased surface density which Consolideck® Blended Densifier provides will make further sanding, grinding or diamond polishing proceed faster.

Consolideck® Blended Densifier is suitable for use with wet or dry grinding and polishing procedures.

Wastewater generated by wet grinding or polishing procedures should be collected and disposed of properly.

Use DailyKlean as part of a comprehensive maintenance program that includes deep cleaning with Consolideck® LSKlean.

For concrete floors regularly maintained with auto scrubbers, see Consolideck® DailyKlean ULTRA 15 or DailyKlean ULTRA 30 for easy dilution. The same ease of dilution is available for deep cleaning with Consolideck® LSKlean ULTRA 15 and LSKlean ULTRA 30.

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, for the name of the PROSOCO representative in your area.