

CONSOLIDECK®
HIGH PERFORMANCE CONCRETE

SL100 Water Repellent

"neat" silane water repellent for concrete

OVERVIEW

Consolideck® SL100 Water Repellent is a modified, "neat" silane system that offers invisible protection and low volatility. SL100 protects horizontal and vertical concrete surfaces against water and waterborne contaminants. The small molecular structure ensures maximum penetration and colorless protection of dense, color-sensitive surfaces. Ideal for GFRC, integrally colored precast concrete and many types of natural stone.

The absence of a solvent carrier enables applicators to achieve up to five times the coverage rate normally achieved with solvent-reduced protective treatments. Depth of penetration is controlled by the application rate (loading rate).

SPECIFICATIONS

For all PROSOCO product specifications visit www.prosoco.com.

ADVANTAGES

- Excellent surface beading/stain resistance when compared with conventional "neat" silane systems.
- Long-lasting protection.
- Does not form a film or gloss.
- Compatible with lithium silicate hardeners and densifiers.

- Treated surfaces "breathe" – does not trap moisture.
- Forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts.
- Leaves little or no residue on clean window glass. Always test.
- Suitable for application on cured, cured & honed and cured & polished concrete.
- Safe for use on surfaces subjected to vehicular traffic.

Limitations

- Not suitable for asphalt or other non masonry materials.
- Do not buff or burnish after application. See "Maintenance" on page 3.
- Not recommended for below-grade applications or for use under hydrostatic pressure.
- Will not prevent water penetration through structural cracks, defects or open joints.
- Do not apply over Consolideck® LSGuard®.
- Not available in South Coast Air Quality Management District, except in regulation-exempt container sizes.

REGULATORY COMPLIANCE

VOC Compliance

Consolideck® SL100 Water Repellent is compliant with the following national, state and district AIM VOC regulations and building codes:

- US Environmental Protection Agency
- California Air Resources Board SCM Districts
- CALGreen
- South Coast Air Quality Management District
- Maricopa County, AZ
- Northeast Ozone Transport Commission

TYPICAL TECHNICAL DATA

FORM	clear to slight yellow liquid
SPECIFIC GRAVITY	0.920
pH	Not applicable
WT/GAL	7.65 lbs
ACTIVE CONTENT	98%
TOTAL SOLIDS	62%
VOC CONTENT	maximum 350 g/L Reactive Penetrating Sealer
FLASH POINT	94°F (34°C) ASTM D 3278
FREEZE POINT	No data
SHELF LIFE	2 years in tightly sealed, unopened container

SL100 Water Repellent

PREPARATION

Protect people, vehicles, property, plants and all non masonry surfaces from product, splash, residue, fumes, mists and wind drift. Divert and/or protect auto and pedestrian traffic.

Ensure fresh air entry and cross ventilation during application and drying. Extinguish all flames, pilot lights and other potential sources of ignition during use and until all vapors are gone. When applying to exteriors of occupied buildings, make sure all windows, exterior intakes and air conditioning vents are covered and air handling equipment is shut down during application and until all vapors have dissipated.

If possible, install all caulking, patching and joint sealants before application. If impractical, test for adhesion and grind joints as required to properly prepare for caulking, etc.

Surfaces should be thoroughly clean and free of dust, surface dirt, oil, grease and other contaminants that might prevent penetration. Carefully inspect for dust, dirt, moisture or other contaminants that can cause the product to react and stain the material.

New concrete should be thoroughly cured before application. Surfaces to be treated may be damp but should be absorbent for good penetration.

Specifier's Note – Curing New Concrete:

Blanket or water curing is recommended whenever possible. If a chemical curing agent is to be used during installation of new concrete, a test area is recommended just before general application to ensure compatibility. Dissipating-type curing agents are recommended. Do not over apply the curing agent. Removal of all surface films and contaminants is necessary for best performance.

NOTE: Some floor and wall systems incorporate asphaltic or other crack-suppression membranes. This deeply penetrative protective treatment may penetrate through surfaces and react with the membrane to mobilize objectionable staining. Always pretest to ensure desired results.

Surface and Air Temperatures

For maximum effectiveness, surface and air temperatures should be above 40°F (4°C) and below 95°F (35°C). Application on windy days may cause rapid evaporation and should be avoided.

Equipment

Preferred method of application is with low-pressure (<50 psi), pump type spray equipment. **DO NOT ATOMIZE DURING APPLICATION.** This product contains a material that can cause serious lung damage or impairment if inhaled as an aerosol or fine mist. Adjust tip to prevent atomization during application.

Battery powered pump sprayers should be rated as explosion proof. Sprayers should be fitted with solvent-resistant hoses and gaskets to avoid discoloration. Brushes and rollers may not achieve a uniform, extended coverage rate on large-scale applications, which could reduce cost efficiency.

Storage and Handling

Store in a cool, dry place away from potential ignition sources. Keep tightly closed when not dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperature of 45–100°F (7–38°C). Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

APPLICATION

Before use, read "Preparation" and "Safety Information."

ALWAYS TEST each type of surface for suitability, and results before overall application. Apply test area using the following application instructions. Let test dry thoroughly before inspection.

Dilution

Use as is. Do not dilute or alter, or use for purposes other than specified. Do not atomize during application.

ALWAYS TEST

ALWAYS TEST a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application.

Coverage Rates

Coverage varies based on porosity and texture. Always test.

- 200–600 square feet per US gallon
- 19–56 square meters per US gallon
- 8–14 square meters per liter

Application Instructions

Horizontal Surfaces

Apply once using enough material to keep the surface wet approximately 30 to 60 seconds before penetrating. Broom out puddles until they completely penetrate the surface.

On extremely porous substrates, two applications will provide superior protection. Apply the second coat a few minutes after the first coat has penetrated and appears dry.

Dense Surfaces

Apply a single coat. Use enough to completely wet the surface without creating drips, puddles or rundown. Do not over apply. Test for application rate.

Drying Time

Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application. SL100 gains its water-repellency properties in 72 hours.

Cleanup

Clean tools and equipment immediately with mineral spirits, denatured alcohol or equivalent cleaning solvent. Remove rundown and spills as soon as possible.

SL100 Water Repellent

Maintenance

This product is not designed for use with buffing or burnishing equipment.

Remove surface dust and debris daily using a microfiber pad or dry dust mop. Maintain the floor with Consolideck® LSKlean ULTRA. This product was developed to further enhance the long-term performance of your finished concrete floor.

Do not use acidic cleaners. Though Consolideck® SL100 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 all spills quickly to minimize any potential for damage.

SAFETY INFORMATION

Consolideck® SL100 Water Repellent evolves an alcohol upon reaction with the treated surface and may cause symptoms typical with organic solvent exposures. This product contains a material that can cause serious lung damage or impairment if inhaled as an aerosol or fine mist. **DO NOT ATOMIZE DURING APPLICATION. DO NOT BUFF OR BURNISH AFTER APPLICATION.** Use approved respiratory protection if aerosols or mists are present. This is a flammable material. Use appropriate ventilation, safety equipment and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

First Aid

Ingestion: If swallowed, immediately call a physician, emergency room or poison control center for instruction on safely inducing vomiting. If vomiting occurs, keep head below waist to prevent entry of liquid into lungs.

Eye Contact: Rinse eyes thoroughly for 15 minutes. Get medical assistance if irritation persists.

Skin Contact: Rinse thoroughly. Get medical attention if irritation persists.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

BEST PRACTICES

Surfaces to be treated must be clean, dry and absorbent.

Remove all loose construction debris and foreign materials from surfaces to be treated using a dry broom. Remove all curing compounds, coatings, paint, wax, embedded soiling, rust, grease and oil using the appropriate Consolideck® surface preparation cleaner.

Preferred method of application is low-pressure spray equipment. **DO NOT ATOMIZE DURING APPLICATION.** Use a fan-type spray tip and adjust pressure to prevent atomization of the material.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application.

Floor may be treated with Consolideck® LS® or LS/CS® prior to application of Consolideck® SL100 Water Repellent.

Do not buff or burnish after application. This product is not designed for use with buffing or burnishing equipment.

Maintain Consolideck® hardened floors with Consolideck® LSKlean ULTRA.

Do not apply over Consolideck® LSGuard®.

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.

SL100 Water Repellent

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

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 Consolideck® representative in your area.