

**CONSOLIDECK®**  
HIGH PERFORMANCE CONCRETE

# LSGuard™

*glossy sealer, hardener & densifier for concrete*



SCIENTIFIC CERTIFICATION SYSTEMS  
SCS-IAQ-01606

## OVERVIEW

Consolideck® LSGuard™ combines high gloss beauty with a high performing lithium silicate hardener. This patented copolymer formulation improves the surface sheen, surface hardness and stain resistance of conventional concrete, hardened concrete or cement terrazzo floors. Surfaces treated with LSGuard™ resist damage from water, chemical attack and surface abrasion.

Ideal for application to standard grey or colored concrete, Consolideck® LSGuard™ protects and enhances the color intensity of integrally colored and color stained concrete. LSGuard™ provides a long lasting, high gloss finish that maximizes light reflectance and eliminates the need for floor waxes, liquid polishes and conventional resin based coatings.

Consolideck® LSGuard™ will not trigger or contribute to surface ASR (Alkali Silicate Reaction).

## SPECIFICATIONS

For all PROSOCO product specifications visit [www.prosoco.com](http://www.prosoco.com) and click on "SpecBuilder" or "Solution Finder."

## ADVANTAGES

- Low odor. Easy to apply. Fast drying.
- Produces a long lasting, high gloss finished concrete floor with maximum light reflectance.
- Eliminates the need for floor waxes, liquid polishes and conventional resin based coatings.
- Further improves the surface sheen, surface hardness and stain resistance of floors treated with Consolideck® LS™ or Consolideck® LS/CS™.
- Enhances and protects Consolideck® GemTone ColorCoats and SafetyColors.
- Tested and conforms to California Collaborative for High Performance School Indoor Air Quality standards. Use can contribute to LEED® for Schools points (EQ Credit 4).
- Will not contribute to surface crazing. High lithium content combats surface ASR.
- Gloss and hardness do not reduce slip resistance.
- Breathable and UV stable. Will not yellow, discolor, peel or flake.
- VOC Compliant. Non-flammable. Non-toxic. Low odor.
- Compatible with Consolideck® GemTone ColorCoats and SafetyColors.

## Limitations

- For indoor use only.

## REGULATORY COMPLIANCE

### VOC Compliance

Consolideck® LSGuard™ 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	milky white liquid
SPECIFIC GRAVITY	1.11
pH	11.0
WT/GAL	9.2 lbs
ACTIVE CONTENT	22%
TOTAL SOLIDS	22%
VOC CONTENT	< 100 g/L
FLASH POINT	NA
FREEZE POINT	32°F (0°C)
SHELF LIFE	1 year in unopened, factory-sealed container

## PREPARATION

Protect people, vehicles, property, plants and all surfaces not designated to receive Consolideck® LSGuard™ from 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.

**SPECIFIER'S NOTE:** A waterproof barrier should be included in the construction of the floor to prevent upward migration of moisture from beneath the concrete flat work.

## Existing Concrete

Consolideck® LSGuard™ may be applied 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® surface prep cleaner listed below:

### Consolideck® SafStrip

- cure & seals
- paint
- high strength coatings

### Consolideck® SafEtch®\*

- concrete laitance
- construction soiling

\*Not for use on concrete previously treated with Consolideck® LS™, LS/CS™ or LSGuard™.

### Consolideck® Wax & Cure Remover

- waxes, sealers & coatings
- low-solids cure & seals

### Consolideck® Cure & Seal Remover

- high-solids cure & seals

### Consolideck® Concrete Floor Restorer

- general soiling
- rust and other metallic staining
- light wax coatings

### Consolideck® Cleaner/Degreaser

- general soiling
- grease and oil

### Consolideck® Oil & Grease Stain Remover

- deep-seated oil & grease staining

Follow the appropriate cleaner with thorough water rinsing. If a d-limonene based cleaner/stripper is used, clean treated surfaces with Consolideck® Cleaner/Degreaser and rinse thoroughly.

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

Application may begin as soon as prepared surfaces are dry and free of ponded water.

## Surface & Air Temperatures

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

## Equipment

Apply with low pressure sprayer and a microfiber or synthetic lint free mop. Do not atomize.

## Storage & 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

**Before application, read "Preparation" and "Safety Information."**

**ALWAYS TEST** each surface for suitability and desired results before overall application. Use the following application instructions. Let surface dry thoroughly before inspection and approval.

## Dilution

Do not dilute when applying to cured concrete or cured and honed concrete.

Dilute with up to one part fresh water when applying to polished or highly polished concrete.

## 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

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 following instructions.

### Estimated Coverage Rates

The following coverage rate is offered for estimating only. See below for instructions on calculating project-specific target coverage rates.

- 1500–2000 sq.ft. (139–186 sq.m.) per US gal

### Calculating Project-Specific Target Coverage Rate

1. Prepare the test section in accordance with "Preparation" information above. Surfaces must be clean, dry and absorbent.
2. Add 1-gallon of LSGuard™ to a clean, pump-up sprayer fitted with a 0.5 gpm spray tip. Apply a light, fine spray according to the Application Instructions below. Repeat as necessary to achieve the desired level of finish.
3. Measure the test area to establish the Target Coverage Rate per gallon. Protect the test area from moisture for 72-hours following application of LSGuard™.

## Application Instructions

Consolideck® LSGuard™ may be applied to steel troweled, honed, polished or highly polished concrete surfaces. For best results, treat floors with Consolideck® LS™ or LS/CS™ before application of LSGuard™.

1. Lightly wet a clean microfiber pad with LSGuard™ and wring out excess, leaving the pad damp.

- Working from one control joint to another, apply a light, fine spray of LSGuard™ to a small section of the floor using a clean, pump-up sprayer fitted with a 0.5 gpm spray tip.
- Using the damp microfiber pad and firm downward pressure, immediately spread the LSGuard™ to produce a thin, even coating. Spread the product as far as possible while maintaining a wet edge. Properly applied, LSGuard™ dries quickly. Stop spreading once drying begins. Avoid overlapping.
- Allow to dry tack free, typically 20-60 minutes.
- Once dry, burnish LSGuard™ using a high-speed burnisher fitted with a Consolideck® Heat high-performance burnishing pad or equivalent polishing pad suitable for use on high-gloss finishes. In addition to smoothing and polishing the treated surface, high-speed burnishing heats the LSGuard™ to help the treatment fuse and bond with the concrete for increased durability and longevity. Surface temperatures immediately behind the burnisher must achieve 90.5°F (32.5°C).
- Repeat steps 1-5 above as necessary for the desired finish. Burnish between coats. Apply up to three coats for maximum gloss.

Under typical conditions, the surface is ready for traffic within 1-hour of final burnishing. Protect from water exposure for 72 hours.

### 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.

Smooth and hardened concrete surfaces should exhibit reduced water absorption and the desired sheen upon drying. Maximum water resistance will develop over 7 days.

### Maintenance

Sweep the floor daily with a microfiber pad or dry dust mop. When needed, dry buff with a high-speed burnisher to refresh gloss.

Though LSGuard™ improves the resistance of concrete floors to staining, acidic substances, including foods, may etch and stain. Clean ALL spills as quickly as possible.

Use Consolideck® LSKlean for maintenance cleaning. LSKlean contains lithium-silicate for improving surface density and preserving the surface sheen of Consolideck® floors.

Do not use other cleaners, including off-the-shelf and common household cleaners, which may contain acidic or alkaline ingredients that can dull the finish of Consolideck® floors.

To restore maximum shine to high traffic areas, dilute LSGuard™ with one part water and repeat Application Instructions steps 1–5 in affected areas.

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

### SAFETY INFORMATION

Consolideck® LSGuard™ is a mildly alkaline solution. Use appropriate safety equipment and job site controls during application and handling. Read full label and MSDS for precautionary instructions before use.

### First Aid

**Eye Contact:** Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open. Seek medical attention immediately.

**Skin Contact:** Wash contacted area with soap and water. Do not attempt to neutralize with chemical agents. If irritation persists, seek medical attention.

### BEST PRACTICES

Surfaces to be treated must be clean, dry and absorbent. Confirm surface absorbency with a light water spray — surfaces designated for treatment should wet uniformly.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application of Consolideck® LSGuard™.

For best results, floors should be treated with Consolideck® LS™ or LS/CS™ prior to application of Consolideck® LSGuard™.

For best durability and stain resistance, burnish freshly installed LSGuard™ with a high speed burnisher using polishing pads for high-gloss finishes. Best results are achieved when burnishing heats the floor to 90.5°F (32.5°C) or greater immediately after passing.

Always use Consolideck® LSKlean for maintenance cleaning of polished Consolideck® floors. Conventional floor cleaners may contain ingredients that can dull high-gloss finishes. LSKlean contains no harsh acids, alkalines, solvents or abrasives. It does contain penetrating lithium-silicate to help maintain the hardness and density of Consolideck® floors.

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.

**Ingestion:** Drink large quantities of water or milk. Do not induce vomiting. Seek medical attention immediately.

**Inhalation:** Remove affected person to fresh air. Wash mouth and nasal passages with water repeatedly. If breathing difficulties persist, seek medical attention.

**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](http://www.prosoco.com), for the name of the Consolideck® representative in your area.