

## Consolideck<sup>®</sup> LS Guard<sup>®</sup> Protective Treatment 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 on each type of masonry. Use the manufacturer's application instructions. Let test area protective treatment cure before inspection. Keep test panels available for comparison throughout the protective treatment 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<sup>®</sup> LS Guard<sup>®</sup> combines high gloss beauty with a high performing lithium silicate hardener. This copolymer formulation improves the surface sheen, surface hardness and stain resistance of conventional concrete, hardened concrete or cement terrazzo floors. Surfaces treated with LS Guard<sup>®</sup> resist damage from water, chemical attack and surface abrasion.

Ideal for application to standard grey or colored concrete, Consolideck<sup>®</sup> LS Guard<sup>®</sup> protects and enhances the color intensity of integrally colored and color stained concrete. LS Guard<sup>®</sup> 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<sup>®</sup> LS Guard<sup>®</sup> will not trigger or contribute to surface ASR (Alkali Silicate Reaction).

### 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. Complies with all known national, state and district AIM VOC regulations.

FLASH POINT: NA

FREEZE POINT: 32°F (0°C)

SHELF LIFE: 1 year in unopened, factory-sealed container

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

## **Preparation**

Surfaces to be treated 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<sup>®</sup> surface prep cleaner. Read "Preparation" and "Safety Information" sections in the Manufacturer's Product Data Sheet for Consolideck<sup>®</sup> LS<sup>®</sup>Guard<sup>®</sup>. Refer to the Product Data Sheet for additional information about application of LS<sup>®</sup>Guard<sup>®</sup>. 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.

Consolideck<sup>®</sup> LS<sup>®</sup>Guard<sup>®</sup> may be applied to steel troweled, honed, polished or highly polished concrete surfaces. For best results, floors should be treated with Consolideck<sup>®</sup> LS<sup>®</sup> or LS/CS<sup>®</sup> prior to application of LS<sup>®</sup>Guard<sup>®</sup>.

## **Application**

### Calculating Target Coverage Rate

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.

1. Prepare the test section in accordance with "Preparation" information above. Surfaces must be clean, dry and absorbent.
2. Add 1-gallon of LS<sup>®</sup>Guard<sup>®</sup> 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 LS<sup>®</sup>Guard<sup>®</sup>.

### Application Instructions

1. Lightly wet a clean microfiber pad with LS<sup>®</sup>Guard<sup>®</sup> and wring out excess, leaving the pad damp.
2. Working from one control joint to another, apply a light, fine spray of LS<sup>®</sup>Guard<sup>®</sup> to a small section of the floor using a clean, pump-up sprayer fitted with a 0.5 gpm spray tip.
3. Using the damp microfiber pad and firm downward pressure, immediately spread the LS<sup>®</sup>Guard<sup>®</sup> to produce a thin, even coating. Spread the product as far as possible while maintaining a wet edge. Properly applied, LS<sup>®</sup>Guard<sup>®</sup> dries quickly. Stop spreading once drying begins. Avoid overlapping.
4. Allow to dry tack free, typically 20-60 minutes.
5. Once dry, burnish LS<sup>®</sup>Guard<sup>®</sup> using a high-speed burnisher fitted with a Consolideck<sup>®</sup> 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 LS<sup>®</sup>Guard<sup>®</sup> 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).
6. 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 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.