

## Consolideck® GemTone Stain 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 surface to confirm suitability and desired results. Use the manufacturer's application instructions. Let test area of protective treatment cure before inspection. Keep test panels available for comparison throughout the 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® GemTone Stain is a non-flammable, water-reducible formulation that penetrates and colors cementitious surfaces without risk of etching the surface or corroding adjacent architectural metals. Use GemTone Stain alone or in layers over grey, integrally colored, acid-stained or color-hardened concrete to produce an unlimited range of color hues. GemTone Stains are compatible with Consolideck® lithium-silicate hardeners and densifiers and is available in 24 standard colors.

### Typical Technical Data

FORM:	Colored liquid, slight odor
SPECIFIC GRAVITY:	0.90 to 1.10
pH:	not applicable
WEIGHT/GALLON:	7.49 to 9.15 pounds
ACTIVE CONTENT:	not applicable
TOTAL SOLIDS:	not applicable
VOC CONTENT:	less than 100 g/L
FLASH POINT:	greater than 200 degrees F (greater than 92 degrees C) FREEZE
POINT:	32 degrees F (0 degrees C)
SHELF LIFE:	2 years in tightly sealed, unopened container

### Limitations:

- GemTone Stain is translucent. Variations in the concrete before staining will still be noticeable after staining.
- Not intended for exterior applications or surfaces exposed to intense ultraviolet light.
- Not for use on surfaces exposed to standing water.

*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. Refer to the Product Data Sheet for additional information about application.

### Dilution

Mix one 12-oz package of GemTone Stain with one-gallon of fresh water to make one gallon of ready-to-use GemTone Stain. Prepared GemTone Stain must be applied within 24-hours. To reduce color intensity, dilute prepared GemTone Stain with up to 2-parts fresh water.

SPECIFIER NOTE: When desirable, dilute GemTone Stain with acetone to produce a ready-to-use stain. Use appropriate ventilation, safety equipment and job-site controls when diluting with acetone.

### **Color Application Instructions**

SPECIFIER NOTE: Application practices using two people get best results; one spraying and one spreading.

SPECIFIER NOTE: Mask neighboring surfaces as needed to control color bleeding.

SPECIFIER NOTE: When spray applying, maintain a consistent flow rate and spray pattern. When triggering or releasing sprayer, direct spray tip into a container to minimize dripping.

1. Diamond grind and polish concrete floor to equivalent of #200 grit resin diamonds.
2. Clean the floor with a floor-scrubbing machine and fresh water and allow to dry.
3. Lightly wet a clean microfiber pad with prepared GemTone Stain.
4. Using a low-pressure sprayer, apply enough prepared GemTone Stain to wet the surface without producing puddles. Do not over apply. Use a small bucket or rag to collect drips when not spraying.
5. Using the microfiber pad prewet with prepared GemTone Stain, spread the spray-applied GemTone Stain to ensure uniform wetting and color distribution. Continue spray-application and maintain a wet edge. Work the color into the surface to minimize streaks and patterns.
6. Allow to dry thoroughly, 60 minutes minimum. Do not walk on freshly stained floor.

#### ***If NO additional polishing is desired:***

SPECIFIER NOTE: Application of up to three thin coats of GemTone Stain produces better color intensity than one heavy coat.

7. Using a floor scrubbing machine and fresh water, remove excess stain residue. Allow to dry.
8. If more color or color variations are desired, apply a second coat of GemTone Stain pursuant to Steps 1-6 above. Each coat must dry for one hour minimum prior to using an auto-scrubber.
9. Using a floor scrubbing machine and fresh water, remove excess stain residue. Allow to dry.
10. Using a low-pressure sprayer, apply a single coat of Consolideck® LS®. Apply sufficient material to wet the surface without producing puddles. Use a clean, soft-bristle push broom or microfiber pad to spread the LS® evenly and achieve uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary.
11. Allow the treated concrete floor to dry. Proceed to Application Instructions for Sealing the concrete floor.

#### ***If additional polishing IS desired:***

SPECIFIER NOTE: Application of up to three thin coats of GemTone Stain produces better color intensity than one heavy coat.

SPECIFIER NOTE: Allowing excess Consolideck® LS® to puddle on the floor will extend dry times and create white residues which must be removed immediately.

7. Using a floor scrubbing machine and fresh water, remove excess stain residue. Allow to dry.
8. Dry-polish to the equivalent of #400 resin diamonds. Polish until all scratch patterns are gone.

9. Clean the floor with a floor-scrubbing machine and fresh water. Allow the floor to dry.
10. If more color or color variations are desired, apply a second coat of GemTone Stain pursuant to Steps 1-6 above. Each coat must dry for one hour minimum prior to using an auto-scrubber.
11. Using a floor scrubbing machine and fresh water, remove excess stain residue. Allow to dry.
12. Using a low-pressure sprayer, apply a single coat of Consolideck® LS®. Apply sufficient material to wet the surface without producing puddles. Use a clean soft-bristle push broom or microfiber pad to spread the LS® evenly and achieve uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary.
13. Dry polish the concrete floor to the desired finish. Proceed to Application Instructions for Sealing the concrete floor.

### **Sealing Application Instructions**

SPECIFIER NOTE: Surfaces colored with Consolideck® GemTone Stain and hardened with Consolideck® LS® must be sealed within 8-hours using Consolideck® LSGuard or another approved Consolideck® coating.

SPECIFIED NOTE: For sealing with another approved Consolideck® coating, following product data sheet application instructions. For sealing with Consolideck® LSGuard, use following application instructions.

1. Lightly prewet a clean microfiber pad with Consolideck® LSGuard® and wring out excess. Microfiber pad should be damp.
2. Using a clean, pump-up spraying fitting with a 0.5 gpm spray tip, apply a light, fine spray of LSGuard® to a small section of the floor.
3. Using the microfiber pad damp with LSGuard, spread the spray-applied product to produce a thin, even coating. Spread the product as far as possible while maintaining a wet edge. Stop spreading once drying begins. Avoid overlapping.
4. Allow the floor to dry tack free, typically 20-60 minutes.
5. After the floor is dry, burnish using a high-speed burnisher fitted with a polishing pad for high-gloss finishes.
6. Repeat Sealing Application Instructions #1-5 up to three times to achieve desired finish and surface gloss.

### **Cleanup**

Before product dries, clean tools and equipment with soap and water.