

CONSOLIDECK®
HIGH PERFORMANCE CONCRETE

GemTone Stain

penetrating translucent color dye for concrete floors



OVERVIEW

Consolideck® GemTone Stain transforms dull grey concrete into decorative, low-maintenance finished concrete flooring. Apply penetrating GemTone Stains to concrete before hardening/densifying with Consolideck® LS®, then apply Consolideck® LSGuard® to enhance the color with a high-gloss protective finish.

This non-flammable, water-reducible formulation penetrates and colors cementitious surfaces without risk of etching the surface or corroding nearby architectural metals. Use GemTone Stains alone or in layers over grey, integrally colored, acid-stained or color-hardened concrete for an unlimited range of colors. Complement translucent GemTone Stains with solid-color GemTone ColorCoats.

Available in 21 standard colors, GemTone Stains are liquid concentrates in pre-measured 12-oz bottles. Adding one bottle to one gallon of fresh water makes a vibrant concrete stain. Concentrated GemTone Stain minimizes freight, handling, storage and container disposal costs.

SPECIFICATIONS

For all PROSOCO product specifications visit www.prosoco.com and click on "SpecBuilder" or "Solution Finder."

ADVANTAGES

- Vibrant colors turn gray concrete into colorful decorative concrete.
- Adds color & depth to diamond-polished concrete.
- Enhances integrally colored, acid stained, color hardened or concrete colored with solvent-based dyes.
- Ideal for use under Consolideck® lithium-silicate hardeners/densifiers.
- VOC Compliant. Non-Flammable. Non-Toxic. Non-corrosive. Low Odor. Suitable for use in occupied spaces.
- Contains no harmful acids. Will not etch polished concrete surfaces or corrode surrounding metals. No need to neutralize.
- Easy application and fast drying lets color be added and blended.
- Produces consistent gem-like color on any age concrete floor.
- Penetrates deeper than acid stains or conventional color pigments. Will not peel or flake.
- Standard colors may be intermixed to create an unlimited number of color variations.
- Additional coats may be applied to improve color depth, uniformity and intensity.

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.

REGULATORY COMPLIANCE

VOC Compliance

Consolideck® GemTone Stains are 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	colored liquid, slight odor
SPECIFIC GRAVITY	0.90 – 1.10
pH	NA
WT/GAL	8.34 lbs
ACTIVE CONTENT	NA
TOTAL SOLIDS	NA
VOC CONTENT	< 100 g/L
FLASH POINT	> 200°F (> 93°C) ASTM D 3278
FREEZE POINT	32°F (0°C)
SHELF LIFE	2 years in unopened, factory-sealed container

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PREPARATION

Protect people, vehicles, property and nearby surfaces not to be treated from contact with the product or over spray. Over spray and spills may be difficult or impossible to remove. Use plastic sheeting or other proven protective material, fastened with blue painters tape or other tape that won't leave adhesive residues.

The concrete surface must be clean and dry. Contaminants may prevent penetration of the stain. Remove all curing compounds, dirt, dust and other contaminants with the appropriate Consolideck® surface preparation cleaner.

After cleaning, spray clean water lightly to confirm the surface wets uniformly. If it doesn't, more preparation is needed.

Freshly placed concrete must be at least 21 days old before coloring. Once concrete is placed, protect the surface from all construction activities before staining. Do not store building materials on newly placed concrete surfaces. Avoid standing water.

Surface and Air Temperatures

For best results keep air flow and surface temperatures consistent during application. Surface and air temperatures should be 50–90°F (10–32°C).

Equipment

Use a clean, low-pressure sprayer, microfiber pads, brush, roller or rags to apply GemTone Stain. Wear "spiked" shoes when walking in wet GemTone Stain.

Storage and Handling

Store in a cool, dry place. Apply product within 24 hours of dilution.

Published shelf life assumes storage of unopened containers in a dry place. Maintain temperature of 50–90°F (10–32°C). Keep from freezing. Do not crush or tear. Dispose of unused product and container in accordance with local, state and federal regulations.

APPLICATION

Visit www.consolideck.com for the most up-to-date application procedures and tips.

Before use, 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.

Include representative imperfections in the test area. Floor composition and surface finish affect final color. GemTone Stains are translucent and will not mask or hide imperfections in treated surfaces.

Dilution & Mixing

GemTone Stain is designed for dilution with fresh water. Mix one 12-oz bottle with one gallon fresh water to make one gallon of ready-to-use GemTone Stain. Apply product within 24 hours of dilution.

To reduce color intensity, dilute prepared GemTone Stain with up to 2 parts fresh water.

When desirable, GemTone Stain may be diluted with acetone to produce a ready-to-use stain. Use appropriate ventilation, safety equipment and job-site controls when diluting with acetone.

Blend GemTone Stains for an unlimited range of colors.

Typical Coverage Rates

Coverage rate varies with concrete quality and porosity.

First Application:

- 400–800 square feet per US gallon
- 37–74 square meters per US gallon
- 9–18 square meters per liter

Additional Applications:

- 500–1,000 square feet per US gallon
- 46–92 square meters per US gallon
- 12–24 square meters per liter

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.

Application Instructions: Color Application

1. Diamond grind and polish the surface to the equivalent of #200 grit resin diamonds.
2. Clean the floor with a floor-scrubbing machine and fresh water. Let the floor dry.
3. Lightly wet a clean microfiber pad with the prepared GemTone Stain.
4. Apply the prepared GemTone Stain to the clean, dry concrete floor using a low-pressure sprayer with a conical spray pattern. 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 wet microfiber pad, immediately spread the spray-applied GemTone Stain to ensure uniform wetting and color distribution. Continue spray-applying. Maintain a wet edge. Work the color into the surface to minimize streaks and patterns. Two people – one spraying and one spreading – get best results.
6. Do not walk on the freshly stained surface. Let the floor dry thoroughly, 60 minutes minimum. If you're NOT polishing further, begin Option 1. If you ARE polishing further, start Option 2.

Option 1: NO more polishing

7. Use a floor scrubbing machine and fresh water to remove excess stain residue. Let the wet floor dry.
8. For more color or color variations, apply a second coat of GemTone Stain as described in steps 1–6. Up to three thin coats produce better results than one heavy coat. Each coat must dry for one hour minimum prior to auto-scrubbing.

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9. Use a floor-scrubbing machine and fresh water to remove excess stain residue. Let the wet floor dry.
10. Apply a single coat of Consolideck® LS® using a low-pressure sprayer. Apply sufficient material to wet the surface without producing puddles. Use a clean, soft-bristle push broom or microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary.

NOTE: Allowing excess LS® to puddle on the floor will extend dry times and create white residues which must be removed immediately. Call the Consolideck® Hotline at 866.363.4567 for removal instructions.

11. Let the treated floor dry. Start Application Instructions for Sealing.

Option 2: MORE Polishing

7. Remove excess stain residue with a floor scrubbing machine and fresh water. Let the wet floor 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. Let the wet floor dry.
10. For more color or color variations, apply a second coat of GemTone Stain as described in steps 1–6. Up to three thin coats produce better results than one heavy coat. Each coat must dry for one hour minimum prior to auto-scrubbing.
11. Use a floor-scrubbing machine and fresh water to remove excess stain residue. Let the wet floor dry.
12. Apply a single coat of Consolideck® LS® using a low-pressure sprayer. Apply sufficient material to wet the surface without producing puddles. Use a clean, soft-bristle push broom or microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. Allow treated surfaces to dry.

NOTE: Allowing excess LS® to puddle on the floor will extend dry times and create white residues which must be removed immediately. Call the Consolideck® Hotline at 866.363.4567 for removal instructions.

13. Dry polish to your desired finish and exposure. Start Application Instructions for Sealing.

Application Instructions: Sealing

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

If using another approved Consolideck® coating for sealing, follow product data sheet application instructions. For sealing with Consolideck® LSGuard® use the following application instructions.

1. Lightly wet a clean microfiber pad with LSGuard® and wring out excess, leaving pad damp.
2. 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.
3. Use the damp microfiber pad and firm downward pressure to immediately spread the product to produce a thin, even coating. Spread the product as far as possible. Maintain a wet edge. Properly applied, LSGuard® dries quickly. Stop spreading once drying begins. Avoid overlapping.
4. Let the floor dry tack free, typically 20-60 minutes.
5. Once dry, burnish. Use a high-speed burnisher fitted with a Consolideck® Heat High-Performance Burnishing Pad or equivalent polishing pad for high-gloss finishes. In addition to smoothing and polishing, 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 reach 90°F (32°C).
6. Repeat "Sealing" steps 1–5 up to three times to achieve the finish and surface gloss desired.

BEST PRACTICES

Before applying color, use a light water spray to confirm surfaces wet uniformly. If surface does not wet uniformly, additional surface preparation may be needed.

Harden unpolished/polished concrete with Consolideck® LS® after staining. Seal polished concrete with Consolideck® LSGuard® after staining and hardening/densifying.

Wet or dry grind before applying GemTone Stain. Dry grind or dry polish only after applying GemTone Stain.

Thoroughly neutralize and rinse acid-stained concrete before applying GemTone Stain.

Mask neighboring surfaces as needed to control color bleeding.

When desirable, GemTone Stain may be diluted with acetone to produce a ready-to-use stain. Use appropriate ventilation, safety equipment and job-site controls when diluting with acetone.

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

For best results, spread evenly using a microfiber pad.

Two thin applications of GemTone Stain achieve better color intensity than one heavy coat. When diamond polishing, apply second coat of stain immediately before final dry polishing step.

Thoroughly rinse application equipment with fresh water between colors and after final application.

Complement translucent GemTone Stains with solid color GemTone ColorCoats.

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Cleanup

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

Final Results

The floor is ready to use when dry.

Protect freshly stained, hardened and sealed surfaces from contact with water or other liquids for 72 hours.

Smooth, hardened concrete surfaces should show reduced water absorption and the desired sheen when dry. Maximum water resistance develops over 7 days.

Maintenance

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

Maintain the floor with Consolideck® LS-Klean Super Concentrate or Consolideck® DailyKlean. These cleaners were developed to enhance the long-term performance of the finished concrete floor.

Do not use acidic or alkaline cleaners. Though Consolideck® LS-Guard® improves the resistance of concrete surfaces to staining, acid concentrates and acidic foods may etch the floor and leave residual stains. Clean all spills quickly to minimize chances for damage.

For additional protective treatments or surface coatings, call Customer Care for recommendations toll-free at 1-800-255-4255.

SAFETY INFORMATION

Consolideck® GemTone Stain is a water-carried product. Use appropriate safety and job site controls during application and handling. Read the full label for precautionary instructions before use.

First Aid

Ingestion: Drink large quantities of water or milk. DO NOT induce vomiting. Seek medical attention immediately.

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.

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, for the name of the Consolideck® representative in your area.