

Chemical Stain For Concrete

CCI GemStain™ colors concrete surfaces with a beautiful variegated and mottled appearance. GemStain™ can transform an ordinary concrete surface into the rich look of granite or marble.

Features – Penetrating Chemical Stain – Will Not Chip, Crack, or Peel – Variegated Color – Reduces Surface Glare

DESCRIPTION

CCI GemStain™ reacts with minerals that exist in concrete that has cured for at least 28 days. It penetrates the very top layer of the concrete surface with color that will not chip, crack, or peel. The colors produced in each section of concrete will be unique with captivating, multi-colored intensities that become a permanent part of the concrete.

USES

CCI GemStain™ is durable enough for commercial application like restaurants, showrooms and retail spaces. CCI GemStain™ also reduces surface-glare on walkways, driveways, patios, and entrances.

- Schools
- Apartments
- Offices
- Restaurants
- Horizontal and vertical
- Interior and exterior

LIMITATIONS

CCI GemStain™ is not effective on many surfaces. Older or weathered concrete, or concrete subject to runoff or dripping water, or heavily sandblasted concrete may have little or no chemical reaction. CCI strongly recommends testing representative samples in different sections of the concrete, to determine suitability of the stain and final appearance. Stain colors **Olive** and **Jade** should NOT be used on slag concrete or in areas subject to water from the sub-grade or standing water. Applying to slag concrete or exposure to excess water will darken or blacken the stained surface. When using these colors, they should be considered for interior purpose where the sub-grade must be well drained and free of hydrostatic pressure.

COLORS

CCI GemStain™ is available in **10** standard colors – Jade, Coffee, Amber, Mahogany, Ebony, Mission Brown, Caramel, Olive, Walnut and Weathered Terracotta

PACKAGING

CCI GemStain™ is available in one-gallon (3.785 L) containers.

COVERAGE

One-gallon (3.785 L) of CCI GemStain™ will color approximately 200-400 square feet (18.58 – 37.87 m²) of concrete surface.

STORAGE

Store in a safe place, out of direct sunlight. Keep containers tightly sealed. DO NOT allow product to freeze. Shelf life is approximately 12 months.

CAUTION – CORROSIVE

Contains corrosives. **KEEP OUT OF THE REACH OF CHILDREN.** Before using or handling, read the Material Safety Data Sheet. **DO NOT TAKE INTERNALLY.** Avoid contact with skin and eyes and clothing. Do not breathe vapor or mist. Wear acid vapor mask (NIOSH/MSHA TC 23C approved), goggles, rubber gloves, protective clothing and chemical-resistant apron and boots. Close container after each use. Use good hygiene when handling this product and wash and bathe after each use. Be sure to wash clothing after each use.

EQUIPMENT FOR APPLICATION

Sprayer: Larger applications are usually done with a garden-type pump sprayer (spray tips and sprayer must be plastic). Container and Brush: Used for smaller projects, a plastic tub or plastic dishpan large enough to permit easy dipping of a brush. **DO NOT USE A METAL CONTAINER.**

EQUIPMENT FOR REMOVAL OF RESIDUE

For interior or small areas, use a medium-sized, stiff-fiber deck brush and wet vacuum with squeegee. For exterior or large areas, use a hose and a broom or a stiff-fiber deck brush with a long handle.

IMPORTANT

DO NOT ACID ETCH PRIOR TO APPLYING!

PREPARATION OF CONCRETE

CCI strongly recommends representative jobsite samples (**mock-ups should always be prepared on the same concrete as the stain is to be applied to**) individuals who will be performing the work should test different sections of the concrete to determine suitability, coverage of the stain and final appearance. The surface of the concrete must be completely free of sealers, oils, dirt, paint, alkali, penetrating sealers, or any foreign materials that would prevent CCI GemStain™ from penetrating the concrete surface. If foreign materials are present or if acid has been used to clean the concrete, CCI GemStain™ may have little or no reaction with the concrete. If in doubt, test the surface by sprinkling with water. If water beads up on the surface, additional cleaning and testing must be done. If the concrete surface is clean, in good condition, and has cured to a uniform, light color, no preliminary treatments are necessary. Just sweep clean and begin application of CCI GemStain™. If the concrete surface has signs of dark moisture and alkali spotting, scrub with a detergent or T.S.P. and rinse well. Sweep clean, and then test for reactivity. It is strongly recommended that a small out-of-the-way section of the concrete be tested first to see if a proper reaction occurs. Be sure to let the stain DRY and then rinse carefully before deciding on the effectiveness of the stain. Protect adjacent areas from over-spray, runoff, spills, and tracking, prior to application.

APPLICATION

Please Note: The color of the material in the bottle will not be the resulting color after the stain has completely reacted with the concrete. **SPRAYER:** Liberally apply stain, evenly and continuously over surface. Do not allow the stain to puddle. Mop up any excess stain so that the surface will dry evenly. (or use a stiff nylon brush to distribute the stain evenly after spraying) **BRUSH:** Apply stain liberally and quickly to the area with the brush full of stain. Rotate brush gently in a circular motion, keeping it in contact with the surface to avoid spatters and runs. Keep the stain container on concrete, but close to work surface to prevent dripping. The stain will foam for a few seconds as it reacts with the concrete. As foaming takes place, continue expanding area very slightly to the outer edges. Once the material reacts and the foaming stops, the residue should not be applied to uncolored sections. Use fresh material to continue staining the uncolored surface, working well back into completed section to avoid lap marks. Maintain a wet edge throughout the procedure. Do not track stain onto flooring that is to remain uncolored.

NOTE

Allow the stain to dry before removing residue. You can test uniformity and depth of color by wetting surface in several places with a cloth wet with water. In warm weather, apply the stain in early morning when concrete is coolest. (Recommend shading areas in direct sunlight)

CLEAN UP

CCI GemStain™ will dry to a powdery residue. This must be removed after the final application of stain is dry. Flush area with water and scrub with a stiff brush. The surface must then be flushed with clean water and neutralized with a pH neutralizer such as ammonia, baking soda, or T.S.P. The rinse water may be slightly corrosive and have the capacity to stain. Special care must be taken to keep runoff from areas that are to remain unstained, stained different colors, or areas containing plant-life.

SEALING

After the concrete has been allowed to cure for 28 days, protect the surface with a CCI Sealer or CCI Epoxy Flooring Product. Please get a copy of the appropriate Technical Information and Material Safety Data Sheet before attempting to use these products.

MAINTENANCE

The sealed surface should be inspected periodically for areas of thin or traffic-worn sealer. Reapply as needed, according to the appropriate Technical Information Sheet. If traces of efflorescence are present, this should first be eliminated with a gentle cleaner. Also ask about DuraWax™ for maintenance and protection.

WARRANTY

This product is not intended for public use and is intended for use by licensed contractors and installers, experienced and trained in the use of these products. It is warranted to be of uniform quality, within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the effects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

PLAN SPECIFICATION

CCI GemStain™ Suggested Short Form Specification:

All concrete surfaces designated in the plans and specifications as being chemically stained, shall receive one application of CCI GemStain™, in _____ color, after the concrete has cured a minimum of approximately 28 days. The surface shall be prepared and CCI GemStain™ applied in accordance with the CCI GemStain™ Technical Information Sheet, using the minimum coverage rate. All chemically stained surfaces shall be protected with a CCI Sealer or CCI Epoxy Flooring Product in accordance with their corresponding Technical Information Sheet. All products shall be manufactured by CCI, 800-443-2871, Layton, UT.

ORDER SPECIFICATION

Product: CCI GemStain™			
Shipping Weight: 10 lbs (4.5 kg)		Container Size: 1-Gallon (3.785 L)	
Item No.:			
WS-100	Jade	WS-700	Mission Brown
WS-300	Coffee	WS-800	Amber
WS-400	Caramel	WS-900	Olive
WS-500	Mahogany	WS-1000	Walnut
WS-600	Ebony	WS-1100	Weathered Terra Cotta

"Concrete Coatings Inc., warrants its products to be free of manufacturing defects and that they will meet Concrete Coatings Inc. current published physical properties when applied in accordance with Concrete Coatings Inc. written directions and tested in accordance with ACI, ASTM and Concrete Coatings Inc. Standards. There are no other warranties by Concrete Coatings Inc. of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Concrete Coatings Inc. shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, from any other cause whatsoever. Concrete Coatings Inc. will not be responsible for use of this product in a manner to infringe on any patent held by others. User assumes all liability and risk associated with use, selection, application and warranty of product. Concrete Coatings Inc. makes no representation as to the suitability of product for any application and/or damages of any kind directly or indirectly associated with its selection or application."

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