



- Interior & exterior use
- Penetrates, seals and protects
- Helps prevent water and chemical damage
- Resists fading, provides UV protection
- Easy application and clean up



## PRODUCT DESCRIPTION

H&C® Concrete Solid Stain is a water-based stain designed to add deep penetrating protection and long-lasting beauty for both exterior and interior concrete. Available in 2 pre-packaged and a variety of tintable colors. It may be applied to bare concrete or previously painted surfaces and is highly resistant to pool chemicals.

## FEATURES & BENEFITS

- Highly resistant to pool chemicals.
- Will not peel, flake, or fade over time.
- Resists acids, ultraviolet rays, oil, gas and alkalis while maintaining a decorative finish.
- Makes surfaces easier to clean.
- Ideal for high-pH surfaces.

## RECOMMENDED USES

H&C® Concrete Solid Stain is formulated for use on concrete, masonry and asphalt. It can be used on both interior and exterior surfaces including walkways, patios, pool decks, basement floors, and block and stucco walls.

## COVERAGE RATES

Substrate*	sq ft/gal
Concrete floors	200-300
Porous concrete	150-250
Concrete block	100-150
Split-faced block	75-125
Fluted block	50-100
Brick (clay)	100-150
Asphalt	200-250

\*Coverage will vary depending on the porosity and texture of the substrate.

## JOBSITE TEST SECTION

Due to the wide variety of substrates, preparation methods, application methods and environments, it is important to test the product in an inconspicuous spot for adhesion and compatibility prior to full-scale application.

## LIMITATIONS

Do not use on wood surfaces.

## SURFACE PREPARATION

**New Concrete:** Allow new concrete to cure at least 28 days. All horizontal concrete surfaces must be etched with H&C Etching Solution or muriatic acid, following label directions. After proper etching, the surface should feel like 120-grit sandpaper. If not, then etch again. Vertical concrete surfaces should be able to absorb water. To test absorption, spray various sections of the surface to be stained with water. If the water does not absorb rapidly, then acid etch the surface using an etching solution, following label instructions, or use mechanical abrasion methods. Do not apply the stain until all surfaces are porous. Allow all surfaces to dry at least 24 hours before staining. Prepared concrete must have a pH of 6 to 10.

**Existing and Previously Painted Concrete:** All concrete must be porous, clean, dry and free of grease, oil and other contaminants. To spot clean, use a cleaner degreaser, following label directions. If mold, mildew, or fungus is present, kill and remove with a solution of 1 cup household bleach to 1 gallon of water. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution. If surface has been previously painted, remove all old, peeling, flaking paint by rough sanding to ensure adhesion of H&C® Concrete Solid Stain. Rinse away sanding dust before stain application. \* DO NOT ETCH PREVIOUSLY PAINTED SURFACES.

**\*WARNING:** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. To avoid exposure to lead dust, wear proper protective equipment, such as a properly fitted respirator (NIOSH approved) and follow proper containment and cleanup procedures. For more information, call the National Lead Information Center at 1-800-424-LEAD (in U.S.) or contact your local health authority.

**Asphalt:** Asphalt surfaces must be free of grease, oil, dirt, wax, and other surface contaminants. Scrub with a solvent-free cleaner, following label directions. Do not etch asphalt. Not recommended for use on freshly sealed asphalt.

**Repair:** For the best waterproofing protection on vertical and horizontal concrete and masonry surfaces, use a patch and repair to address spalled concrete. Please note that patching compounds will generally be visible through clear coatings

## TOOLS REQUIRED

**Brush:** Use nylon or polyester paint brushes.

**Roller:** Use a solvent-resistant soft woven roller (3/8- to 1/2-inch nap).

**Airless sprayer:** Pressure 1500 psi; tip .013 to .017 inch.

**Conventional sprayer:** Air pressure 30-50 psi; fluid pressure 15-20 psi; cap/tip 704/FX or equivalent.

**HVLP:** Cap/needle Titan #3 or equivalent.

**NOTE:** Back rolling is recommended after spraying.

## APPLICATION INSTRUCTIONS

Apply H&C® Concrete Solid Stain onto dry surfaces only. Moisture content should not exceed 3 lbs/1,000 sq. ft. of surface (ASTM F710). Air, surface and material temperatures must be between 50° and 90° F and at least 5° F above the dew point during and for 24 hours after application. Do not apply H&C Concrete Solid Stain if rain is expected within 12 hours following application. A minimum of two coats are required.

**How to Apply:** Apply with a brush, roller, or sprayer. Stir product thoroughly before and during application. When using more than one container, intermix all containers together to ensure color uniformity. Prior to applying the first coat, dry sweep the concrete with a stiff broom or shop vacuum to remove all loose surface contaminants.

**First Coat:** Apply first coat evenly, working in one direction. Allow to dry at least 2 hours before applying the second coat.

**Second Coat:** For best coverage, apply the second coat crosswise to the first coat. Two coats of H&C® Concrete Solid Stain are usually sufficient. However, extremely porous surfaces may require a third coat for a uniform appearance. Allow 12 hours of dry time between coats.

## SLIP RESISTANCE

Some surfaces such as inclined driveways, garage floors, steps and patios may require a slip-resistant additive for safety. Add a slip-resistant additive to the final coat, following label directions. This product should not be used in place of a nonskid finish.

## CLEANUP

Clean tools and any spills or spatters immediately using soap and warm water.

## PHYSICAL PROPERTIES

Typical Physical Properties and Characteristics		
Property	Test Method	Value
Dry Time (@ 77°F, 50% RH)	Dry-to-touch	30 minutes
	Foot Traffic	2 hours
	Heavy traffic	72-96 hours
	Light Traffic/Recoat	2 hours
	Full cure	7-14 days
Flash Point	ASTM D93, PMCC	499 deg. F.
VOC	EPA Method 24	<224 g/L; 1.87 lb/gal*
Static Coefficient of Friction		0.9
Water-Vapor Transmission	ASTM D1653, Method A	5.21 ± 0.12 grains/sq ft/hr
Perm Rating	ASTM D1653	11.2 ± 0.3 grains/(hr ft <sup>2</sup> in Hg)
Accelerated Weathering	ASTM G154 Color change	3,000 hrs., no effect Delta E = 0.35
Wind-Driven Rain Resistance	Rilem Tube Method #11.4	Zero water penetration after 60 mins. exposure
Salt Spray Resistance	ASTM B117	No film defect after 500 hrs. exposure
Chemical Resistance	<ul style="list-style-type: none"><li>• 10% sodium hydroxide</li><li>• 10% ammonium hydroxide</li><li>• Mineral spirits (KB value 38)</li></ul>	No softening or color change
Sulfide Staining Resistance	ASTM D1712	No change after 15 mins.
Chloride Ion Penetration	AASHTO T 259/T 260	Reduction of 54% @ 0.0625-0.5" penetration, 83% @ 0.5-1.0" penetration, 36% @ 1.0-1.5" penetration
Impact Resistance (6 inch-pounds direct impact)	Fed. Std. 141A Method 2051 ASTM D2794	No film chipping
Abrasion Resistance	ASTM D968	>2,000 liters of sand
Flexibility (1-inch-diameter mandrel)	ASTM D522 Method B	No cracking or breaking
Scrub-Resistance Testing	ASTM D2486	1,200 cycles, no failure
Adhesion Testing	ASTM 3359 <ul style="list-style-type: none"><li>• Method A X-cut tape test</li><li>• Method B cross-cut tape test</li></ul>	No film loss; Classification 5A  Less than 5% removed; Classification 4B
Reflectance of White	ASTM E1331	86% ± 3%
Color & Gloss Retention	ASTM G90	Color: Less than 0.30 change Sheen: 0.5 difference @ 60°
Sheen (pigmented & clear)	ASTM D523	Satin < 35
Volume Solids Pigmented: Solids by Weight Solids by Volume	ASTM D2832	43% ± 2%* 30% ± 2%*
Weight per Gallon	ASTM D1475	10 lbs.*

\*May vary depending on color

## **MAINTENANCE**

Clean light to moderately soiled surfaces with a 50/50 solution of a Cleaner Degreaser and water or with another neutral-based cleaner, following the manufacturer's directions for use. Use the cleaner full strength for heavy soiling, such as oil and grease stains.

## **ORDERING INFORMATION**

<b>Bombay</b> 1 gallon	<b>Part Number</b> 72.000010-16
<b>Gull Gray</b> 1 gallon	<b>Part Number</b> 72.000012-16
<b>White Base</b> 1 gallon	<b>Part Number</b> 72.000014-16
<b>Deep Base</b> 1 gallon	<b>Part Number</b> 72.000016-16
<b>Ultra Deep</b> 1 gallon	<b>Part Number</b> 72.000018-16

## **CAUTION**

**CAUTIONS: CONTAINS CRYSTALLINE SILICA.** Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (**NIOSH** approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

## **LIMITED WARRANTY**

Seller's and manufacturers only obligations shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising from the applicator's inability to use the product for his/her intended use. The user assumes all risk and liability.

## **TECHNICAL SERVICES**

The information and recommendations set forth in this product data sheet are based on tests conducted by or on behalf of H&C® Products Group and The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your H&C® or Sherwin-Williams representative to obtain the most recent product data sheet.

For technical assistance, call 1-800-867-8246 or visit [www.hcconcrete.com](http://www.hcconcrete.com).