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H&C®

# CONCRETE STAIN

## SOLID COLOR WATER BASED

FORMERLY SHIELD PLUS ULTRA CONCRETE STAIN

PRODUCT DESCRIPTION	CHARACTERISTICS	SURFACE PREPARATION														
<p><b>H&amp;C® Concrete Stain Water Based</b> provides superior protection and beauty for both exterior and interior concrete. Fortified with silicone it is ideal for pool decks, patios, walkways, block and stucco walls, basements and laundry rooms. It may be applied to bare concrete or previously painted surfaces. <b>H&amp;C® Concrete Stain Water Based</b> is highly resistant to pool chemicals. For best results on garage floors use <b>H&amp;C® Shield-Crete Garage Floor Epoxy</b>.</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• Protects and beautifies interior and exterior surfaces</li> <li>• Use on concrete, masonry, and asphalt</li> <li>• Will not peel, flake, or fade</li> <li>• Resists oil, gasoline, water, and UV rays</li> <li>• Makes the surface easier to clean</li> <li>• Soap &amp; water clean up</li> <li>• Ideal for high pH surfaces</li> </ul> <p><b>Recommended Uses:</b></p> <ul style="list-style-type: none"> <li>• Pool Decks</li> <li>• Stadium Supports</li> <li>• Bridges and Bridge Structures</li> <li>• Parking Garages</li> <li>• Athletic Courts</li> <li>• Asphalt Driveways</li> <li>• Block &amp; Stucco Walls</li> <li>• Patios and Walkways</li> <li>• Basement Floors</li> <li>• CMU, Split Face, and Fluted Block</li> <li>• Precast, Poured-in-place, and Tilt-up Concrete.</li> </ul> <p>For a complete color/seal system on porous substrates, apply 2 coats of <b>H&amp;C® Concrete Stain Water Based</b> and a flood coat of <b>H&amp;C Super V™ Water Repellant</b>.</p>	<p><b>Color:</b> 8 ready mixed colors, 3 tintable bases for a variety of custom colors and clear for added durability.</p> <p><b>Coverage</b> <span style="float: right;"><b>sq ft/gal</b></span></p> <table border="0"> <tr><td>Concrete floors</td><td style="text-align: right;">200-300</td></tr> <tr><td>Porous concrete</td><td style="text-align: right;">150-250</td></tr> <tr><td>Asphalt</td><td style="text-align: right;">200-250</td></tr> <tr><td>Concrete block</td><td style="text-align: right;">100-150</td></tr> <tr><td>Split faced block</td><td style="text-align: right;">75-125</td></tr> <tr><td>Fluted block</td><td style="text-align: right;">50-100</td></tr> <tr><td>Brick (clay)</td><td style="text-align: right;">100-150</td></tr> </table> <p><b>Drying Time, @ 77°F, 50% RH:</b> temperature and humidity dependent To touch: 30 minutes Light traffic and recoat: 2 hours Heavy traffic: 72-96 hours Full Cure should be reached in 7-14 days <small>*NOTE: High humidity and /or low temperatures will affect drying time.</small></p> <p><b>Flash Point:</b> <span style="float: right;">N/A</span></p> <p><b>Vehicle Type:</b> <span style="float: right;">100% Acrylic</span> <b>White 20.00121-</b></p> <p><b>VOC (less exempt solvents):</b> <span style="float: right;">224 g/L; 1.87 lb/gal*</span></p> <p><b>Pigmented Sheen:</b> <span style="float: right;">Low Luster &lt; 35</span></p> <p><b>Volume Solids:</b> <span style="float: right;">30 ± 2%*</span></p> <p><b>Weight Solids:</b> <span style="float: right;">43 ± 2%*</span></p> <p><b>Weight per Gallon:</b> <span style="float: right;">10.0 lb*</span> <small>*May vary by color</small></p> <p><b>Clear 20.00120-</b></p> <p><b>VOC (less exempt solvents):</b> <span style="float: right;">246g/l; 2.05lb/gal</span></p> <p><b>Clear Sheen:</b> <span style="float: right;">Low Luster &lt; 35</span></p> <p><b>Volume Solids</b> <span style="float: right;">19%</span></p> <p><b>Weight Solids</b> <span style="float: right;">22%</span></p> <p><b>Static Coefficient of Friction:</b> <span style="float: right;">.9</span></p> <p><b>Water Vapor Transmition</b> ASTM D1653 5.21 ± 0.12 grains/(hr ft<sup>2</sup>)</p> <p><b>Perm Rating</b> ASTMD1653 11.2 ±.3 grains/(hr ft<sup>2</sup> in Hg)</p>	Concrete floors	200-300	Porous concrete	150-250	Asphalt	200-250	Concrete block	100-150	Split faced block	75-125	Fluted block	50-100	Brick (clay)	100-150	<p><b>WARNING!</b> Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.</p> <p><b>Bare Concrete:</b> Newly poured concrete must be at least 28 days old. All concrete must be porous, clean, dry and free of grease, oil &amp; any other contaminants. To spot clean, use <b>H&amp;C® Cleaner Degreaser</b> following label directions. If mold, mildew or fungus is present, kill and remove with a solution of one-cup household bleach to one gallon of water. All horizontal concrete surfaces <b>MUST</b> be etched with <b>H&amp;C® Etching Solution</b> or muriatic acid, following label directions. After proper etching the surface should have the feel of 120-grit sandpaper, if not then a second etching is required. Vertical concrete surfaces should absorb water. Test various sections by spraying water directly onto the surface to be stained. If the water does not absorb rapidly, then the surface should be acid etched using the <b>H&amp;C® Etching Solution</b> following label instructions or mechanically abraded. <b>Do not</b> apply the stain until all surfaces are porous. Allow all surfaces to dry 24 hours before staining. Prepared concrete must have a pH level between 6 and 10.</p>
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## SURFACE PREPARATION

**Garage Floors:** For best results use H&C<sup>®</sup> Shield-Crete Garage Floor Epoxy

**Driveways:** Proper surface preparation is crucial when using this product on garage floors and driveways. For best results us H&C<sup>®</sup> Concrete Sealer Solvent Based.

**Asphalt:** Asphalt surfaces must be free of grease, oil, dirt, wax, etc. Scrub with a **solvent free cleaner** following label directions. DO NOT ETCH ASPHALT. Not recommended if asphalt has been freshly sealed.

**Previously Painted:** All old, peeling, flaking paint must be removed. Areas with firm adhesion must be clean and free of dirt, oil, grease, etc. Clean with H&C<sup>®</sup> Cleaner Degreaser, following label directions. Rinse thoroughly and allow to dry. Remaining paint should be rough sanded in a circular motion to ensure adhesion of H&C<sup>®</sup> Concrete Stain. Rinse away sanding dust. DO NOT ETCH PREVIOUSLY PAINTED SURFACES.

**Repair:** For the best waterproofing protection on vertical and horizontal concrete and masonry surfaces, patch and repair cracks with H&C<sup>®</sup> Quick Patch and Repair. Patching compounds will generally be visible through clear coatings.

## APPLICATION

**When to Apply:** H&C<sup>®</sup> Concrete Stain Water Based should be applied on to a dry surface where moisture content should not exceed 3lbs/1000 sq. ft. of surface (ASTM F710). **Air, surface and material** temperature 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<sup>®</sup> Concrete Stain Water Based if rain is expected in 12 hours following the application. Stir stain thoroughly before and during application. A minimum two coats is required. Apply with brush, roller or spray. When using more than one container, **intermix** all containers together to ensure color uniformity. Prior to applying your first coat, dry-sweep the concrete with a stiff broom or shop vacuum to remove all surface latent.

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

**Second Coat:** Apply second coat cross-wise to the first coat. Two coats of H&C<sup>®</sup> Concrete Stain Water Based are usually sufficient. However, extremely porous surfaces may require a third coat for a uniform appearance. If more than two coats are applied on a horizontal surface, consider using H&C<sup>®</sup> SharkGrip Slip-Resistant Additive. Allow 2 hours dry time between coats. Allow 72 to 96 hours drying conditions before using the surface for heavy traffic.

## APPLICATION

**Brush**—Use a nylon/polyester brush

**Roller**—Use a 3/8" woven nap cover

**Spray—Airless**

Pressure ..... 1500 psi

Tip ..... .013" - .017"

**Spray—Conventional**

Air Pressure ..... 30 - 50 psi

Fluid pressure ..... 15 - 20 psi

Cap/Tip ..... 704/FX or equivalent

**HVLP**

Cap/Needle .... Titan #3 or equivalent

Backrolling recommended after spraying

**Slip Resistance:** Some surfaces may require a slip-resistant additive for safety. Add H&C<sup>®</sup> SharkGrip Slip Resistant Additive to the final coat, following label directions. H&C<sup>®</sup> SharkGrip Slip Resistant Additive should not be used in place of a non-skid finish.

## CLEANUP INFORMATION

Clean spills and spatters immediately with soap and warm water.

## TECHNICAL SERVICES

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of H&C concrete coatings 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.



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<b>ORDERING INFORMATION</b>		<b>PERFORMANCE DATA</b>		<b>PERFORMANCE DATA</b>	
<b>Clear</b> Gallon Five	<b>Part Number/SMIS</b> 20.001204/163-2702 20.001205/163-2710	<b>Accelerated Weathering</b> <b>ASTM G154</b> 3000 hrs, no effect <b>Color Change:</b> Delta E = 0.35		<b>Scrub Resistance Testing</b> 1200 cycles, no failure	
<b>Extra White</b> Gallon Five	<b>Part Number/SMIS</b> 20.001214/163-1753 20.001215/163-1746	<b>Color &amp; Gloss Retention</b> <b>ASTM G90</b> <b>Color:</b> Less than .30 Change <b>Sheen:</b> .5 difference @ 60°		<b>Adhesion Testing</b> <b>ASTM 3359</b>	
<b>Deep Base</b> Gallon Five	<b>Part Number/SMIS</b> 20.002214/163-1738 20.002215/163-1720	<b>Chloride Ion Penetration</b> <b>AASHTO T 259/T 260</b> Reduction of 54 % @ 0.0625"-0.5" penetration, 83 % @ 0.5"-1.0"penetration, and 36 % @ 1.0"-1.5"penetration		<b>Method A X-Cut Tape Test</b> Results: No film loss Classification 5A	
<b>Ultra Deep</b> Gallon Five	<b>Part Number/SMIS</b> 20.003214/163-1712 20.003215/163-1704	<b>Resistance to Wind Driven Rain</b> <b>Rilem Tube Method #11.4</b> Zero water Penetration over 60 minutes exposure		<b>Method B Cross-Cut Tape Test</b> Results: Less than 5% removed Classification: 4B	
<b>Bombay</b> Gallon Five	<b>Part Number/SMIS</b> 20.001254/163-1787 20.001255/163-1795	<b>Resistance to Salt Spray</b> <b>ASTM B117</b> No film defect after 500hrs exposure		<b>Abrasion Resistance ASTM D968</b> <b>Results:</b> >2000 Liters of Sand	
<b>Sandstone</b> Gallon Five	<b>Part Number/SMIS</b> 20.001324/163-1852 20.001325/163-1845	<b>Resistant to Sulfide Staining</b> <b>ASTM D1712</b> No change after 15mins		<b>CAUTIONS</b>	
<b>Tile Red</b> Gallon Five	<b>Part Number/SMIS</b> 20.001364/163-1902 20.001365/163-1910	<b>Chemical Resistance</b> <b>10% Sodium Hydroxide</b> No softening or color change		Do not use on wood surfaces. Non-photochemically reactive.	
<b>Terra Cotta</b> Gallon Five	<b>Part Number/SMIS</b> 20.001354/163-1886 20.001255/163-1894	<b>10% Ammonium Hydroxide</b> No softening or color change		Label Caution CAUTION 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. DELAYEFFECTS 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. LCE 12/02/2002 20.001214 01 00	
<b>Pearl Gray</b> Gallon Five	<b>Part Number/SMIS</b> 20.001314/163-1837 20.001314/163-1829	<b>Mineral Spirits KB value 38</b> No softening or color change			
<b>Gull Gray</b> Gallon Five	<b>Part Number/SMIS</b> 20.001284/163-1803 20.001285/163-1811	<b>Reflectance of White (20.00121-)</b> 86% +/-3%			
<b>Silver Gray</b> Gallon Five	<b>Part Number/SMIS</b> 20.001344/163-1878 20.001345/163-1860	<b>Impact Resistance</b> <b>Fed Std 141A Method 2051 ASTM D 2794</b> 6 inch-pounds direct impact <b>Results:</b> No film chipping			
		<b>Flexibility ASTM D522 Method B</b> 1-inch diameter mandrel <b>Results:</b> No cracking, breaking, etc			