

111.081 H&C® CONCRETE STAIN SOLID COLOR WATER BASED

FORMERLY SHIELD PLUS ULTRA CONCRETE STAIN

PRODUCT DESCRIPTION

H&C® Concrete Stain Water Based

provides superior protection and beauty for both exterior and interior concrete. Fortified with sili-cone it is ideal for pool decks, patios, walkways, block and stucco walls, basements and laundry rooms. It may be applied to bare con-crete or previously painted surfaces. H&C® Concrete Stain Water Based is highly resist-ant to pool chemicals. For best results on gar-age floors use H&C® Shield Crete Garage Floor Epoxy.

Features:

- Protects and beautifies interior and exterior surfaces
- Use on concrete, masonry, and asphalt
- Will not peel, flake, or fade
- Resists oil, gasoline, water, and UV rays
- Makes the surface easier to clean
- Soap & water clean up
- Ideal for high pH surfaces

Recommended Uses:

- Pool Decks
- Stadium Supports
- Bridges and Bridge Structures
- Parking Garages
- Athletic Courts
- Asphalt Driveways
- Block & Stucco Walls
- Patios and Walkways
- Basement Floors
- CMU, Split Face, and Fluted Block
- Precast, Poured-in-place, and Tilt-up Concrete.

For a complete color/seal system on porous substrates, apply 2 coats of H&C® Concrete Stain Water Based and a flood coat of H&C Super V™ Water Repellant.

CHARACTERISTICS

Color:

8 ready mixed colors, 3 tintable bases for a variety of custom colors and clear for added durability.

Coverage	sq ft/gal
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

Drying Time, @ 77°F, 50% RH:

*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

*NOTE: High humidity and /or low temperatures will affect drying time.

Flash Point: N/A Vehicle Type: 100% Acrylic

White 20.00121-VOC (less exempt solvents):

224 g/L; 1.87 lb/gal*

Pigmented Sheen:Low Luster < 35</th>Volume Solids: $30 \pm 2\%^*$ Weight Solids: $43 \pm 2\%^*$ Weight per Gallon: 10.0 lb^*

* May vary by color

Clear 20.00120-VOC (less exempt solvents):

246g/l; 2.05lb/gal
Clear Sheen: Low Luster < 35
Volume Solids 19%
Weight Solids 22%

Static Coefficient of Friction: .9

Water Vapor Transmition

ASTM D1653 5.21 ± 0.12 grains/(hr ft2)

Perm Rating

ASTM D1653 11.2 ±.3 grains/(hr ft2 in Hg)

SURFACE PREPARATION

WARNING! 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.

Bare Concrete: Newly poured concrete must be at least 28 days old. All concrete must be porous, clean, dry and free of grease, oil & any other contaminates. To spot clean, use H&C® Cleaner Degreaser 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 MUST be etched with H&C® Etching Solution 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 H&C® Etching Solution following label instructions or mechanically abraded. Do not 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.



111.081 H&C® CONCRETE STAIN SOLID COLOR WATER BASED

FORMERLY SHIELD PLUS ULTRA CONCRETE STAIN

SURFACE PREPARATION

Garage Floors: For best results use H&C_® 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**® **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_® 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_® 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® Quick Patch and Repair. Patching compounds will generally be visible through clear coatings.

APPLICATION

When to Apply: H&C_® 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® 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 crosswise to the first coat. Two coats of H&C® 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® 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

Slip Resistance: Some surfaces may require a slip-resistant additive for safety. Add H&C® SharkGrip Slip Resistant Additive to the final coat, following label directions. H&C® 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.

PERFORMANCE DATA

Accelerated Weathering

ASTM G154 3000 hrs, no effect Color Change: Delta E = 0.35

Color & Gloss Retention

ASTM G90

Color: Less than .30 Change Sheen: .5 difference @ 600

Chloride Ion Penetration AASHTO T 259/T 260

Reduction of 54 % @ 0.0625"-0.5" penetration, 83 % @ 0.5"-1.0"penetration, and 36 % @1.0"-1.5"penetration



111.081 H&C® CONCRETE STAIN SOLID COLOR WATER BASED

FORMERLY SHIELD PLUS ULTRA CONCRETE STAIN

PERFORMANCE DATA

Resistance to Wind Driven Rain Rilem Tube Method #11.4

Zero water Penetration over 60 minutes exposure

Resistance to Salt Spray ASTM B117

No film defect after 500hrs exposure

Resistant to Sulfide Staining ASTM D1712

No change after 15mins

Chemical Resistance 10% Sodium Hydroxide No softening or color change

10% Ammonium HydroxideNo softening or color change

Mineral Spirits KB value 38 No softening or color change

Reflectance of White (20.00121-) 86% +/-3%

Impact Resistance Fed Std 141A Method 2051 ASTM D 2794

6 inch-pounds direct impact **Results**: No film chipping

Flexibility ASTM D522 Method B

1-inch diameter mandrel **Results**: No cracking, breaking, etc

Scrub Resistance Testing 1200 cycles, no failure

Adhesion Testing ASTM 3359 Method A X-Cut Tape Test

Results:No film loss Classification 5A

Method B Cross-Cut Tape Test

Results: Less than 5% removed

Classification: 4B

Abrasion Resistance ASTM D968 Results: >2000 Liters of Sand

ORDERING INFORMATION

Clear Gallon

Five

Extra White Gallon Five

Deep BaseGallon
Five

Ultra Deep Gallon Five

BombayGallon
Five

SandstoneGallon
Five

Tile RedGallon
Five

Terra CottaGallon
Five

Pearl GrayGallon
Five

Gull Gray Gallon Five

Silver Gray Gallon Five Part Number/SMIS 20.001204/163-2702 20.001205/163-2710

Part Number/SMIS 20.001214/163-1753 20.001215/163-1746

Part Number/SMIS 20.002214/163-1738 20.002215/163-1720

Part Number/SMIS 20.003214/163-1712 20.003215/163-1704

Part Number/SMIS 20.001254/163-1787 20.001255/163-1795

Part Number/SMIS 20.001324/163-1852 20.001325/163-1845

Part Number/SMIS 20.001364/163-1902 20.001365/163-1910

Part Number/SMIS 20.001354/163-1886 20.001255/163-1894

Part Number/SMIS 20.001314/163-1837 20.001314/163-1829

Part Number/SMIS 20.001284/163-1803 20.001285/163-1811

Part Number/SMIS 20.001344/163-1878 20.001345/163-1860

CAUTIONS

Do not use on wood surfaces. Non-photochemically reactive.

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. DELAY-ED EFFECTS FROM LONG TERM OVEREXP-OSURE. 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

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 conrete 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.