



H&C® HYDRO-DEFEND® SL-40 SILANE WATER REPELLENT



PRODUCT DESCRIPTION

H&C® HYDRO-DEFEND® SL-40 Silane is a proprietary 40% Silane that penetrates into concrete or masonry and provides long term weatherproofing protection. H&C HYDRO-DEFEND SL-40 is a single component product that is ready to use and typically requires only one application.

FEATURES & BENEFITS

- No masking or cleaning of windows
- Small Silane molecules results in deep penetration
- Outstanding protection against deicing salts and chloride ions
- No change to traction or skid resistance
- No color change to substrate
- Dries quickly
- Can be reopened to foot traffic within one hour

RECOMMENDED USES

H&C HYDRO-DEFEND SL-40 Silane 150 Water Repellents is formulated for use on concrete and masonry surfaces including driveways, traffic sounds barriers, cast in place concrete, precast concrete, exposed aggregate, brick and mortar, stucco, sandstone, and architectural concrete block.

ALTERNATE USES

For a color/seal system on extremely porous substrates, apply a flood coat of SL-40 then 2 coats of H&C COLORTOP Solvent-Based Solid Color Concrete Sealer.

COVERAGE RATES

Substrate	sq ft/gal
Smooth precast concrete	125 - 175
Cast-in-Place	100 - 150
Precast Concrete	125-150
Exposed Aggregate	100-150
**Split face block (CMU)	50 - 75
Fluted Block	50 - 75
Brick (Clay)	100 - 150
Stucco	100 - 150
Sandstone	75 - 125
Steel trowelled concrete	150 - 200

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

** Lightweight Split Faced block may require a film-forming product due to its extreme porosity.

JOBSITE TEST SECTION

Due to the wide variety of substrates, preparation methods, application methods and environments, it is important to create a test sample.

LIMITATIONS

For use on BARE surfaces only. Do not apply to a damp or wet surface. Cover and protect all grass, shrubs, plants, etc. from overspray. Do not spray onto plastic or specialty coated glass, protect all asphalt based materials and painted surfaces. The shelf life for an unopened container is one year. Keep containers tightly sealed when not in use. Shelf life is 36 months unopened. Store in a dry location with a temperature range between 40°F to 95°F.

SURFACE PREPARATION

Horizontal Applications: Allow new concrete to cure at least 28 days. 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 H&C® CONCRETEREADY® Etching Solution, following label instructions. After proper etching, the surface should feel like 120-grit sandpaper. If not, then etch again. Mechanical abrasion methods may be necessary to achieve proper profile. 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. For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI No.310.2.

Vertical Applications: All concrete must be porous, clean, dry and free of grease, oil and other contaminants. To spot clean, use H&C CONCRETEREADY 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. In order to ensure adhesion of H&C HYDRO-DEFEND Water Repellents all paint or coating must be removed from the surface by mechanical abrasion. For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI No.310.2.

Repair: For the best waterproofing protection on vertical and horizontal concrete and masonry surfaces, use H&C CONCRETEREADY Quick Patch and Repair to address spalled concrete. Please note that patching compounds will generally be visible through clear coatings.

TOOLS REQUIRED

- Synthetic roller (3/8- to ½-inch nap)
- Pump up sprayer (pressure 5 to 15 psi; tip Cone)
 - *Backrolling recommended after spraying
- Eye Protection
- Respiratory Protection
- Gloves

APPLICATION INSTRUCTIONS

Wait at least 24 hours after washing surface or after rain before applying H&C HYDRO-DEFEND SL-40 Silane Water Repellents. Only apply under dry conditions. Air and concrete surface temperatures should be above 50°F and below 90°F for 24 hours following application.

How to Apply: Stir thoroughly before and during application. Do not shake or whip air into sealer, and do not reduce. Apply with a brush, roller, or pump up sprayer. When applying by roller, maintain a wet edge, going in the same direction during the entire application.

On vertical surfaces, apply the material from the bottom of the wall upwards spraying so that it will run down the surface at least six inches below the spray pattern. On rough porous surfaces allow material to penetrate 5-10 minutes then recoat. Less material will be needed for the second application.

On horizontal surfaces, saturate in a single application. Use enough material to keep the surface wet for 2-3 minutes before penetration. Broom or Back roll out any puddles until excess material soaks into the surface. Dense surfaces will only require a single application. Use enough to completely wet the surface without creating drips, puddles or rundown. Do not over apply.

CLEANUP

Clean tools and any spills or spatters immediately using Isopropyl or denatured alcohol. Clean hands immediately after use with a waterless hand cleaner. Follow manufacturer’s safety recommendations when using any solvent.

MAINTENANCE

Clean surfaces coated with H&C HYDRO-DEFEND SL-40 using a mixture of 3 parts water to 1 part H&C CONCRETEREADY Cleaner Degreaser.

PHYSICAL PROPERTIES

Physical Properties and Characteristics		
Property	Test Method	Value
Dry Time (@ 77°F, 50% RH)	Dry-to-touch	1 hour
	Light foot traffic	2 hours
	Heavy traffic	72 hours
	Recoat	24 hours
Flash Point	ASTM D93, PMCC	55 deg. F.
VOC		
	EPA Method 24	494 g/L
Finish	ASTM D523	Matte
Volume Solids/ Weight Solids	ASTM D 5095 <i>*Standard test method used to determine nonvolatile content in reactive masonry water repellants - this test adds a catalyst to the water repellent to measure total solid. After testing, total solids for this product is approximately 4%.</i>	Active Content: 40% <i>*NOTE: Active content is a calculated value based on weight percent of siloxane in the total formulation. Some active content will be consumed upon reaction with the substrate.</i>
National Cooperative Highway Research Program, 244 REPORT, Series II Test		
Water-Vapor Transmission	Minimum Required	
SL-40**	100%	100%
Reduction in Chloride Ion Intrusion	Minimum Required	
SL-40**	75%	86%
Scaling Resistance	OPS B51.08.01 ASTM C672 50 Cycles Minimum Required:	
SL-40 NA	0

ORDERING INFORMATION

Clear	Part Number/SMIS
5 gallons	50.145055-20/ 6509-22958

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.

CAUTION

CAUTION contains ALIPHATIC HYDROCARBONS.

Contents are COMBUSTIBLE. Keep away from heat and open flame. VAPOR HARMFUL. 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. 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 for 15 minutes and get medical attention. For skin contact, wash thoroughly with soap and water. In case of respiratory difficulty, provide fresh air and call physician. If swallowed do not induce vomiting. Call Poison Control Center, hospital emergency room, or physician immediately.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

LIMITED WARRANTY

Seller's and manufacturer's 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.