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H&C[®] SL-40 SILANE WATER REPELLANT

PRODUCT DESCRIPTION

H&C[®] SL-40 is a proprietary 40% Silane that penetrates into concrete or masonry and provides long term weatherproofing protection. H&C[®] SL-40 is a single component product that is ready to use and typically requires only one application. During application of H&C[®] SL-40, no masking or cleaning of windows is necessary and metal areas are unaffected. The Silane molecule can penetrate deeper into the substrate than conventional sealers and even deeper than a typical siloxane sealer. Once the Silane molecule penetrates the surface it chemically reacts with, and bonds to, the concrete or masonry substrate. As a result of the strong chemical bond, Silane waterproof protection will last many times longer than conventional coatings. H&C[®] SL-40 will not darken the surface or leave a visible surface film. It is ideal for esthetic/architectural surfaces. In independent testing, H&C[®] SL-40 allowed perfect moisture vapor transmission or "breathing" of the substrate. This ability to breathe helps prevent potential freeze-thaw damage

Inhibits:

- Moisture Penetration
- Attack by Deicing salts and chloride ions
- Reinforcing steel and precast anchor corrosion
- Attack by airborne industrial chemicals
- Spalling caused by freeze thaw cycles
- Efflorescence
- Surface scaling

Features:

- No masking or cleaning of windows
- Small Silane molecules results in deep penetration
- Outstanding protection against deicing salts and chloride ions
- Passes the N.C.H.R.P. report 244
- No change to traction or skid resistance
- No color change to substrate
- Dries quickly

Recommended uses:

- Cast-in-place and precast concrete
- Exposed aggregate
- Brick and mortar
- Stucco and sandstone
- Architectural Concrete Block**

MEETS SPECIFICATIONS

- Active Material - 40% minimum by weight
- N.C.H.R.P Report 244
 - Series II - Reduced the average weight gain of 15% NaCL water by 86%.
 - Vapor Transmission - Excellent - No moisture retained after 21days.
 - Freeze-Thaw-ASTM-C 672 - 50 cycles Treated Sample -- + 0 Control -- 5

CHARACTERISTICS

Color:	Clear
Coverage	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
Concrete Block	75 - 125
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

Drying Time, @ 77°F, 50% RH:

temperature and humidity dependent	
To touch:	1 hour
Light traffic:	2 hours
Heavy traffic:	72 hours

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

Flash Point:	55°F
Finish:	Matte
Vehicle Type:	Silane
VOC (less exempt solvents):	494 g/L
*Active Content:	40%

See page 2 for active content details

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.

Testing: Due to the wide variety of substrates, preparation methods, application methods and environments, the customer should test the product in an inconspicuous spot for adhesion and compatibility prior to full scale application.

Bare Concrete:

New concrete must be cured a minimum of 28 days. Use a wet burlap cure. Other curing compounds may not be compatible. Tuckpointing must cure a minimum of 3 days and caulking should be fully cured before application. Concrete surfaces should be clean, free of dirt, oil, grease and other contaminants. New concrete surfaces may only require sweeping, however, if construction traffic has been excessive, washing with 2,000 psi pressure cold water may be necessary. On older concrete surfaces; sandblasting, shot blasting or high-pressure cold water may be used. Chemical cleaning or high-pressure hot water may also be used. Rinse thoroughly after chemical cleaning. The surface pores must be opened up sufficiently to allow immediate penetration of H&C[®] SL-40. A good test is to place a few drops of H&C[®] SL-40 onto the clean surface. H&C[®] SL-40 should be immediately absorbed into the surface. **Substrate should have a pH between 6-10.**



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APPLICATION

Before application, the surface should be completely dry. Allow at least 24 hours with sunshine for drying, if surface was wet. Do not apply below 32°F or above 100°F. Do not apply if rain is expected within 3 hours. Do not apply during windy conditions. Apply a single application of H&C[®] SL-40 with low-pressure spray equipment (15 psi), roller or broom. Use a fan type spray nozzle for greatest efficiency. 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 horizontal surfaces, H&C[®] SL-40 should be sufficiently applied to completely flood the surface, approximately 125 FT²/gal. depending on the porosity of the surface. Typically, the surface can be reopened to traffic in one hour, if the temperature is at 72°F or above. Opened containers of H&C[®] SL-40 should be tightly resealed when not in use. The full chemical reaction of the Silane will take 5 days. Do not expect a water beading effect until after 5 days.

Alternate Uses:

For a color/seal system on porous substrates, apply one flood coat of **H&C[®] SL-40** then 2 coats of **H&C[®] Concrete Sealer Solvent Based**.

LIMITATIONS

Apply only between 32°F -100°F. 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.

WARNING

- Use with adequate ventilation
- Keep out of the reach of children
- Use a NOISH approved respirator, when necessary
- Do not take internally
- In case of ingestion, CALL A PHYSICIAN immediately. DO NOT induce vomiting

Flammable Mixture. If splashed in the eyes, flush thoroughly with clean water for a minimum of 15 minutes. CALL A PHYSICIAN immediately. May cause irritation to the skin. If brought into contact with the skin, wash thoroughly with soap and water. Seek medical attention if redness or irritation occurs. Avoid breathing vapors and spray mist. Keep away from heat, spark, open flame and other possible sources of ignition. Reseal container after each use. Wear protective clothing, gloves, and goggles. Safe disposal of rags is necessary to avoid possibility of spontaneous combustion. Read MSDS before using product.

CLEANUP INFORMATION

Tools and equipment: Clean sprayer and tools with Isopropyl or denatured alcohol.

TECHNICAL SERVICES

1-800-TO STAIN(867-8246)
www.hc-concrete.com

ORDERING INFORMATION

Part Number

Five 50.045055-20

SMIS Number

Five 165-0589

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.

**NOTE: Active content is a calculated value based on weight percent of silane in the total formulation. Some active content will be consumed upon reaction with the substrate. ASTM D 5095 - 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 29%.*

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