



H&C® HYDRO-DEFEND® SX-7 SILOXANE WATER REPELLENT



PRODUCT DESCRIPTION

H&C® HYDRO-DEFEND® SX-7 Siloxane Water Repellent is a proprietary 7% Siloxane water repellent that does not require dilution. H&C HYDRO-DEFEND SX-7 will not impair the natural breathing characteristics of treated surfaces. H&C HYDRO-DEFEND SX-7 helps concrete and masonry surfaces resist cracking, spalling, staining and other damage related to water intrusion. Low odor and alkaline stable, H&C HYDRO-DEFEND SX-7 is ideal for field and in-plant application

FEATURES & BENEFITS

- No masking or cleaning of windows
- Penetrates deeply for long-lasting protection on vertical or horizontal surfaces.
- Treated surfaces “breathe”—does not trap moisture.
- Low odor for safe installation to occupied buildings.
- No change to traction or skid resistance
- No color change to substrate
- Dries quickly

RECOMMENDED USES

H&C HYDRO-DEFEND SX-7 Siloxane Water Repellent 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 and architectural concrete block.

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
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. Hydro-Defend water repellents won't keep water out of cracks, defects or open joints. Not suitable for application to gypsum or other nonmasonry surfaces. Do not use below grade. Don't apply to surfaces intended for painting later. Some cementitious coatings, plaster, stucco, etc., may not adhere well to treated surfaces. Install these materials first and let them dry before application of H&C HYDRO-DEFEND SX-7. The shelf life for an unopened container is three years. Shelf life is 12 months. Not for use on cinder block due to porosity issues.

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.

Repair: For the best repair on vertical and horizontal concrete and masonry surfaces, use H&C CONCRETEREADY Quick Patch and Repair to fill low spots and 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 SX-7 Siloxane Water Repellent. Only apply under dry conditions. Air and concrete surface temperatures should be above 50°F and below 90°F for 24 hours following application. If freezing conditions exist before application, let masonry thaw. The water carrier may freeze at low temperatures or evaporate in hot conditions. Both conditions impair penetration and results.

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. When spraying, back roll sealer to remove excess, which will ensure an even finish. Do not overapply.

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. Brush 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 soap and warm water.

MAINTENANCE

Clean surfaces coated with H&C HYDRO-DEFEND SX-7 using a mixture of 3 parts water to 1 part H&C CONCRETEREADY Cleaner Degreaser.

PHYSICAL PROPERTIES AND PERFORMANCE TESTING

Physical Properties and Characteristics		
Property	Test Method	Value
Dry Time (@ 77°F, 50% RH)	Dry-to-touch	1 hours
	Light foot traffic	2 hours
	Heavy traffic	72 hours
	Recoat	5-10 minutes
VOC	EPA Method 24	< 50g/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: 7% <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>
Water penetration and leakage through masonry	ASTM E154	Reduction in leakage rate 60% (AVG)

ORDERING INFORMATION

Clear	Part Number/SMIS
5 gallon	50.144055-20/ 6509-22966

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

CAUTIONS 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. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

WARNING:

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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.