



H&C® HYDRO-DEFEND® WATER-BASED CONCRETE & DRIVEWAY PROTECTOR



PRODUCT DESCRIPTION

H&C® HYDRO-DEFEND® Water-Based Concrete & Driveway Protector is a clear siloxane water repellent that is designed to protect exterior bare concrete driveways and masonry surfaces.

FEATURES & BENEFITS

- Water-Based formulation.
- Protects against damaging freeze/thaw cycles.
- Reduces intrusion of water, de-icing salts and other contaminants.
- Penetrates deeply for long-lasting protection.
- Will not alter the color appearance or texture of the treated surface.
- User-friendly, soap and water clean-up.

RECOMMENDED USES

H&C HYDRO-DEFEND Water-Based Concrete & Driveway Protector is formulated for use on exterior concrete and masonry surfaces including driveways, walkways, patios, pool decks, garage floors.

COVERAGE RATES

Substrate	sq ft/gal
Concrete floors	150-200
Porous concrete	100-150
Split-Faced block	50-75
Fluted block	75-100
Brick (clay)	100-150
Precast Concrete	125-175

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 recommended for below-grade application.

Not suitable for application to gypsum or other non-masonry surfaces. Not for use on cinder block due to porosity issues.

SURFACE PREPARATION

New Concrete: 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 treated 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 water repellent until all surfaces are porous. Allow all surfaces to dry at least 24 hours before treating. Prepared concrete must have a pH of 6 to 10.

Existing and Previously Painted Concrete: 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. * DO NOT ETCH PREVIOUSLY PAINTED SURFACES.

***WARNING:** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. To avoid exposure to lead dust, wear proper protective equipment, such as a properly fitted respirator (NIOSH approved) and follow proper containment and cleanup procedures. For more information, call the National Lead Information Center at 1-800-424-LEAD (in U.S.) or contact your local health authority.

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 1/2-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 Water-Based Concrete & Driveway Protector. 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 pump up sprayer, low pressure spray equipment (15 psi), roller or brush. Use a cone type spray nozzle for greatest efficiency. Avoid atomization of material.

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. Test for application rate.

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. Typically, the surface can be reopened to traffic in one hour and the surface should be visibly dry.

CLEANUP

Clean tools and any spills or spatters immediately using soap and warm water.

MAINTENANCE

Clean surfaces coated with H&C HYDRO-DEFEND Water-Based Concrete & Driveway Protector 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 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
1 gallon	50.144154-16/ 6507-12359
5 gallons	50144155-20/ 6507-12367

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 manufacturers 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.