



H&C® HYDRO-DEFEND® WATER-BASED CLEAR CONCRETE WATERPROOFER



PRODUCT DESCRIPTION

H&C® Hydro-Defend® Water-Based Clear Concrete

Waterproofer is a siloxane-based water repellent that penetrates the surface to provide a breathable barrier. It will not alter the color or texture of concrete.

FEATURES & BENEFITS

- Non-film forming
- Protects against freeze/thaw cycles
- Will not alter color or texture of surface
- Resists damage from water, salt, dirt and other contaminants

RECOMMENDED USES

For use over bare concrete and masonry surfaces only.

Commonly used on:

- Driveways
- Patios & walkways
- Pool decks
- Brick & block
- Tilt-up concrete
- Stadium supports

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

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

For use over bare concrete and masonry surfaces only. Newly poured concrete must be cured at least 7 days at 75°F. Newly installed pavers should weather a minimum of 60 days; excess joint sand should be swept off the surface prior to application. All concrete must be clean, dry and free of grease, oil, paint, sealers, etc. A high-pressure water wash is recommended. To spot clean, use *H&C® ConcreteReady® Cleaner Degreaser*, following label instructions. If mold, mildew or fungus are present, kill and remove with a solution of one cup household bleach to one gallon of water. Wear protective eyewear, waterproof gloves and protective clothing. Quickly wash off any of the mixture that comes into contact with your skin. Do not add detergents or ammonia to the bleach/water solution. Surface should have the feel of 120-grit sandpaper at minimum and readily absorb water. To test absorption, spray various sections of the surface to be sealed with water. If the water does not absorb rapidly, concrete must be etched with *H&C® ConcreteReady® Etching Solution*, following label directions. If the surface does not feel like 120-grit sandpaper following the first application, a second etching is required. (NOTE: Porous vertical surfaces such as standard CMU, split-faced block and exposed aggregate, generally do not require etching.) Prepared concrete must have a pH level between 6 and 10. Allow 24 hours to dry before waterproofing.

***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: Use *H&C® ConcreteReady® Quick Patch and Repair*, following label directions, to fill low spots and spalled concrete. Note: Patching compounds will generally be visible through clear coatings.

TOOLS REQUIRED

- Nylon / polyester brush
- High-density roller cover (3/8- to ½-inch nap)
- Pump up sprayer (pressure 5 to 15 psi; tip Cone)
- Eye Protection
- Respiratory Protection
- Gloves

APPLICATION INSTRUCTIONS

For best results, surface and air temperature should be above 50°F and below 90°F. Temperature should not fall below 40°F for 24 hours following application. Do not apply if rain is expected within 12 hours of application. Stir thoroughly before and during application. DO NOT THIN.

Apply liberally and evenly; surface should remain wet for 2-3 minutes. A pump up sprayer is the recommended method of application. Use a cone type spray nozzle for greatest efficiency. Avoid atomization of material. Remove excess material by back-rolling. DO NOT OVERAPPLY. For rough, porous surfaces, allow material to penetrate 5-10 minutes, then recoat. Dense surfaces will only require a single application. If coating vertical surfaces, apply in the same manner, working from the bottom to the top.

CLEANUP

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

MAINTENANCE

Clean light to moderately soiled surfaces with a 50/50 solution of H&C® ConcreteReady® Cleaner Degreaser and water. Use the cleaner full strength for heavy soiling, such as oil and grease stains.

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.**

PHYSICAL PROPERTIES

Physical Properties and Characteristics		
Property	Test Method	Value
Dry Time (@ 77°F, 50% RH)	Dry-to-touch	1 hour
	Recoat	5-10 minutes
	Foot traffic	2 hours
	Heavy traffic	72 hours
VOC	EPA Method 24	< 100g/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	50.154154-16 / 6507-12359
5 gallons	50.154155-20 / 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.

For technical assistance, call 1-800-867-8246 or visit www.hcconcrete.com.

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.