PRODUCT DESCRIPTION

H&C® HYDRO-DEFEND® SX-7 Siloxane Water Repellant 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 Repellant is formulated for use on concrete and masonry surfaces including driveways, traffic sound barriers, cast in place concrete, precast concrete, exposed aggregate, brick and mortar, stucco and architectural concrete block.

COVERAGE RATES

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

*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.
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.

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

PHYSICAL PROPERTIES AND PERFORMANCE TESTING

<table>
<thead>
<tr>
<th>Physical Properties and Characteristics</th>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Time (@ 77°F, 50% RH)</td>
<td>Dry-to-touch</td>
<td>1 hours</td>
<td></td>
</tr>
<tr>
<td>Light foot traffic</td>
<td>Heavy traffic</td>
<td>2 hours</td>
<td>72 hours</td>
</tr>
<tr>
<td>Recoat</td>
<td>5-10 minutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>EPA Method 24</td>
<td>&lt; 50g/l</td>
<td></td>
</tr>
<tr>
<td>Finish</td>
<td>ASTM D523</td>
<td>Matte</td>
<td></td>
</tr>
<tr>
<td>Volume Solids/ Weight Solids</td>
<td>ASTM D 5095</td>
<td>Active Content: 7%</td>
<td></td>
</tr>
<tr>
<td>Water penetration and leakage through masonry</td>
<td>ASTM E154</td>
<td>Reduction in leakage rate 60% (AVG)</td>
<td></td>
</tr>
</tbody>
</table>

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.

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.