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LOXON[®]
 40% SILANE
 WATER REPELLANT
 A31T00040

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>PERFORMANCE TESTS</u>																												
<p>Loxon 40% Silane Water Repellant is a clear silane water repellent designed to weatherproof old and new concrete and masonry against nature's destructive forces. Providing a long lasting, breathable barrier which exhibits superior resistance to water, airborne dust and dirt, salt, acid rain, efflorescence, alkali, freeze/thaw damage and spalling.</p> <p>Silane Water Repellant protects against damage resulting from moisture intrusion and chloride ion penetration.</p> <p>Silane Water Repellant is a 40% silane solution that does not mar glass or metal flashing.</p> <p>Recommended Uses: Most Concrete and Masonry surfaces including:</p> <ul style="list-style-type: none"> • Stadium Supports • Bridges and Bridge Structures • Parking Garages • Traffic Sound Barriers • Driveways • Sidewalks • Concrete & brick patios <ul style="list-style-type: none"> • Tilt-up and poured-in-place walls • Concrete block • Split faced block • Fluted block • Brick (clay or cement) • Roof tile • Stucco • Mortar <p><u>Do not use on asphalt surfaces.</u> <u>Not for immersion service.</u></p>	<p>Color: Clear</p> <p>Coverage sq ft/gal</p> <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px;">Smooth precast concrete</td> <td style="text-align: right; padding: 2px;">125-175</td> </tr> <tr> <td style="padding: 2px;">Porous concrete</td> <td style="text-align: right; padding: 2px;">100-150</td> </tr> <tr> <td style="padding: 2px;">Split face block</td> <td style="text-align: right; padding: 2px;">50-75</td> </tr> <tr> <td style="padding: 2px;">Fluted Block</td> <td style="text-align: right; padding: 2px;">25-50</td> </tr> <tr> <td style="padding: 2px;">Concrete Block</td> <td style="text-align: right; padding: 2px;">75-125</td> </tr> <tr> <td style="padding: 2px;">Brick (Clay)</td> <td style="text-align: right; padding: 2px;">100-150</td> </tr> <tr> <td style="padding: 2px;">Bridge decks</td> <td style="text-align: right; padding: 2px;">100-150</td> </tr> <tr> <td style="padding: 2px;">Steel trowelled concrete</td> <td style="text-align: right; padding: 2px;">150-200</td> </tr> </table> <p>Coverage will vary depending on the porosity and texture of the substrate.</p> <p>Drying Time, @ 77°F, 50% RH: Temperature and humidity dependent Touch: 3 hours</p> <p>If a second coat is required to uniform the application, this product MUST be applied wet-on-wet.</p> <p>Vehicle Type: Silane</p> <p>Flash Point, PMCC: 55°F</p> <p style="text-align: center;">A31T00040</p> <p>VOC (less exempt solvents): 494 g/L; 4.12 lb/gal</p> <p>Active Content: 40 ± 2%</p> <p>Weight per Gallon: 6.9 lb</p> <p>Sherwin Williams Technical Data for the Silane Water Repellent reports Active Content which is based off ASTM D5095 - Standard Test Method for Determination of the Nonvolatile Content in Silanes, Siloxanes, and Silane-Siloxane Blends Used in Masonry Water Repellents Treatments. A catalyst is used to react the treatment and some active content is consumed as the treatment polymerizes yielding a lower solids value. The total solids for this product by ASTM D5095 is 40% ± 2%.</p>	Smooth precast concrete	125-175	Porous concrete	100-150	Split face block	50-75	Fluted Block	25-50	Concrete Block	75-125	Brick (Clay)	100-150	Bridge decks	100-150	Steel trowelled concrete	150-200	<p><i>National Cooperative Highway Research Program, 244 REPORT, Series II Test</i></p> <p>Reduction in Chloride Ion Intrusion</p> <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px;">Minimum Required</td> <td style="text-align: right; padding: 2px;">75%</td> </tr> <tr> <td style="padding: 2px;">Loxon Silane</td> <td style="text-align: right; padding: 2px;">76%</td> </tr> </table> <p>Water Repellency</p> <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px;">Rilem Tube (72 hrs)</td> <td style="text-align: right; padding: 2px;">79%</td> </tr> <tr> <td style="padding: 2px;">Immersion (3 day)</td> <td style="text-align: right; padding: 2px;">88%</td> </tr> </table> <p>Alkali Resistance Tests: Each was allowed to react for 24 hours under a watch glass, washed with water, allowed to recover for 30 minutes then observed.</p> <p>Alkali:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px;">5% NaOH</td> <td style="text-align: right; padding: 2px;">Pass</td> </tr> <tr> <td style="padding: 2px;">10% NaOH</td> <td style="text-align: right; padding: 2px;">Pass</td> </tr> </table> <p style="text-align: center;"><u>SURFACE PREPARATION</u></p> <p>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.</p> <p>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.</p> <p>To determine if the surface is sealed with another coating or a curing compound, sprinkle water onto the surface. If the water is absorbed and the surface becomes darker, the surface is not sealed. If the water beads up, there is a coating or curing compound that must be removed to allow the waterproofer to penetrate. It is crucial to ensure proper penetration of the coating.</p>	Minimum Required	75%	Loxon Silane	76%	Rilem Tube (72 hrs)	79%	Immersion (3 day)	88%	5% NaOH	Pass	10% NaOH	Pass
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SHERWIN WILLIAMS.

SURFACE PREPARATION

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Remove all existing paint.

Concrete, Stucco

If needed, pressure clean with a minimum of 2100 psi to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, coatings, chalk, form release agents, moisture curing membranes, mildew, etc. Allow the surface to dry thoroughly. Concrete and mortar must be cured at least 7 days at 75°F. On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern.

For very smooth surfaces (troweled surfaces with no porosity) use H&C® Concrete Etching Solution at full strength to open up the surface to allow this to penetrate into the surface. For smooth-troweled concrete with some porosity, 1 part H&C Concrete Etching Solution to two parts water should be used. Only etch horizontal concrete, follow label directions carefully, including neutralization. Prepared concrete should have a pH between 7 and 10.

Because water will collect in low spots and may deposit etching and cleaning residue, it is recommended that, if needed, the surface be vacuumed to remove any remaining water.

Repair any loose or disintegrated mortar and allow it to cure before application. Repaired areas may be noticeable through this clear coating.

- Use caution when preparing the substrate to create a uniform surface.
- Cracks, crevices, and through-wall openings must be patched using ConSeal Sealant or Patch.
- Fill voids and openings around window and doors using ConSeal Sealant or Patch.
- Stripe coat all inside and outside corners and edges with Loxon 40% Silane Water Repellant

APPLICATION

- A single flood coat is recommended, if a second coat is needed, it MUST be applied as a wet-on-wet application or there may be intercoat adhesion problems.
- Surface texture determines actual coverage.
- Stir thoroughly before and during application.
- Air and surface temperature should be between 32°F and 90°F.
- Do not reduce.
- Protect against rain for 4 to 5 hours to allow the water repellent to become effective.
- Allow 7 days for the product to fully react before evaluating performance.

If surface is damp or wet from weather or cleaning, allow the surface to dry thoroughly before applying any coating.

Apply by low pressure airless sprayer or pump-up sprayer. The best results are achieved when working with low spraying pressures so the impregnating solution is applied in the form of droplets rather than a mist. Use the flood method.

Vertical surfaces - saturate or "flood", allowing the material to run down 8 to 10 inches. Work from the top down and in sections small enough to allow the run down to remain "wet" as application continues.

Horizontal surfaces - coat with enough material to allow it to stand for a few seconds before penetrating.

Interruption of Work: Upon drying, treated surfaces appear identical to untreated surfaces. It is possible areas could remain untreated if work is interrupted. It is advisable to stop application on a corner joint or any other obvious marker so the applicator can begin where application had previously ceased.

CLEANUP INFORMATION

Clean tools and equipment with isopropyl alcohol, denatured alcohol, or equivalent cleaning solvent. Follow manufacturer's safety recommendations when using these solvents.

CAUTIONS

Loxon 40% Silane Water Repellant is not recommended for topcoating over film-forming paints, stains, or sealers.

Loxon 40% Silane Water Repellant will not prevent water penetration through unsound or cracked surfaces or structures with defective structural waterproofing, caulking or flashing.

Not for use on marble, limestone, or other forms of calcium carbonate. These surfaces can be very smooth, this product may not penetrate into these surfaces and provide the water repellancy needed.

Do not use below grade.
For atmospheric use only.

CAUTION contains ALCOHOLS. Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. VAPOR HARMFUL. 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 for 15 minutes and get medical attention. For skin contact, wash thoroughly with soap and water. In case of respiratory difficulty, provide fresh air and call physician. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

HOTW 03/03/2008 A31T00040 04 00

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of 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 Sherwin-Williams representative to obtain the most recent Product Data Sheet.