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111.13

**H&C<sup>®</sup>**

# CONCRETE & MASONRY WATERPROOFING SEALER

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SURFACE PREPARATION</u>																
<p><b>H&amp;C Concrete &amp; Masonry Waterproofing Sealer</b> is a quality acrylic sealer that penetrates and protects bare, aged, dry, and porous surfaces. Because it penetrates, it resists water damage long after the water beading is gone.</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• a weather resistant moisture barrier</li> <li>• protects concrete, masonry and brick against water-caused deterioration and damage</li> <li>• for interior or exterior application</li> <li>• guards against efflorescence, spalling, repeated freeze-thaw cycles, deicing salts, and general weathering and degradation caused by water infiltration.</li> </ul> <p><b>Recommended Residential Uses:</b></p> <ul style="list-style-type: none"> <li>• interior/exterior</li> <li>• concrete</li> <li>• brick</li> <li>• masonry</li> <li>• cinder block</li> <li>• flagstone</li> <li>• canvas</li> <li>• stucco</li> </ul> <p><b>Not recommended on surfaces subject to vehicle traffic.</b></p> <p><b>For use on BARE surfaces only.</b></p>	<p><b>Color:</b> Clear when dry Milky when wet</p> <p><b>Coverage</b> <b>sq ft/gal</b></p> <table> <tr> <td>Concrete floors</td> <td>200 - 250</td> </tr> <tr> <td>Porous concrete</td> <td>150 - 200</td> </tr> <tr> <td>Concrete block</td> <td>125 - 150</td> </tr> <tr> <td>Brick</td> <td>100 - 150</td> </tr> <tr> <td>Stucco</td> <td>100 - 150</td> </tr> </table> <p>Coverage will vary depending on the porosity and texture of the substrate One coat is usually sufficient.</p> <p><b>Drying Time, @ 77°F, 50% RH:</b> temperature and humidity dependent</p> <table> <tr> <td>Touch:</td> <td>15 minutes</td> </tr> <tr> <td>To recoat</td> <td>within 2 - 4 hours</td> </tr> <tr> <td>Light Foot Traffic:</td> <td>24 hours</td> </tr> </table> <p><b>Flash Point:</b> none</p> <p><b>Finish:</b> Flat</p> <p><b>Vehicle Type:</b> Acrylic</p> <p><b>50.043054 Clear</b></p> <p><b>VOC (less exempt solvents):</b> 114 g/L; 0.95 lb/gal</p> <p><b>Volume Solids:</b> 9 ± 2%</p> <p><b>Weight Solids:</b> 9 ± 2%</p> <p><b>Weight per Gallon:</b> 8.4 lb ± 2%</p>	Concrete floors	200 - 250	Porous concrete	150 - 200	Concrete block	125 - 150	Brick	100 - 150	Stucco	100 - 150	Touch:	15 minutes	To recoat	within 2 - 4 hours	Light Foot Traffic:	24 hours	<p><b>Testing:</b> 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>All surfaces must be clean, dry and free of grease, oil, paint, sealers, etc. To clean, use H&amp;C Degreaser, following label directions, rinse thoroughly and allow the surface to dry. If mold mildew or fungus are present, kill and remove by cleaning with a solution of 1 part household bleach to 3 parts water.</p> <p><b>Bare Concrete:</b> New concrete must be cured 45 days. All horizontal concrete must be etched with H&amp;C Concrete Etching Solution first, following label directions. For very smooth surfaces (troweled surfaces with no porosity) use H&amp;C Concrete Etching Solution at full strength. For smooth-troweled concrete with some porosity, 1 part H&amp;C Concrete Etching Solution to two parts water should be used. Do not etch painted surfaces. Prepared concrete should have a pH between 6 and 10.</p> <p><b>Repair:</b> For the best waterproofing protection on vertical concrete and masonry, patch and repair cracks and crevices where water can enter. Use ConSeal Sealants and Patches on exterior surfaces following label directions. On floor surfaces, use appropriate patching material. Patching compounds will generally be visible through clear coatings.</p>
Concrete floors	200 - 250																	
Porous concrete	150 - 200																	
Concrete block	125 - 150																	
Brick	100 - 150																	
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Touch:	15 minutes																	
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Light Foot Traffic:	24 hours																	

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**H&C®**

**CONCRETE & MASONRY**

**WATERPROOFING SEALER**

**APPLICATION**

- Apply under dry conditions only. Do not apply if rain is expected within 24 hours following application.
- Air and surface temperature should be between 50° and 90°F for 24 hours following application.
- Do not over-apply
- Stir thoroughly before and during application.
- Apply at package consistency on dry to slightly damp surfaces.
- Do not reduce.

**Brush**—Use a nylon/polyester brush

**Roller**—Use a 3/8" - 1/2" nap cover

**Spray—Airless**

Pressure ..... 1500 psi

Tip ..... .011" - .017"

**Spray—Conventional**

Air Pressure ..... 30 - 50 psi

Fluid pressure ..... 15 - 20 psi

Cap/Tip ..... 704/FX or equivalent

**HVLP**

Cap/Needle ..... Titan #3 or equivalent

Backrolling or backbrushing is recommended after spraying.

Apply with a synthetic brush, pad, roller mop, squeegee, or spray. Back brush after spray application. On horizontal surfaces, remove puddles by reworking or wiping up. Do not over apply. One coat is usually adequate. For extremely porous surfaces, apply a second coat within 2 to 4 hours of the first coat working in a second coat thoroughly. A sample brush out on the surface to be treated is recommended to make sure you achieve desired clarity. This will ensure proper penetration and application level. For best results, surface and air temperature should not fall below 50°F for the 24 hour period following application. Dries thoroughly in 24 hours in optimal drying conditions.

**CLEANUP INFORMATION**

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water or a waterless hand cleaner. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using any solvent.

**CAUTIONS**

NOTE: Do not use this product on non-porous surfaces. To determine porosity, splash some water against the surface to be protected. If the water rapidly sinks in and darkens the surface, the surface is porous and needs protection. If the surface does not darken, test again in a few months.

**LABEL CAUTIONS**

Use only with adequate ventilation. To avoid over-exposure, 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, get medical attention immediately. WARNING: This product contains a chemical known to the State of California to cause cancer. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

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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.



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As of 10/26/2010, Complies with:			
OTC	No	LEED® 09 CI	N/A
SCAQMD	No	LEED® 09 NC	N/A
CARB	No	LEED® 09 CS	N/A
MPI Spec #	117	LEED® H	N/A
NGBS	N/A		

107.33  
**LOXON®**  
40% SILANE  
WATER REPELLANT  
A31T00040

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>PERFORMANCE TESTS</u>																
<p><b>Loxon 40% Silane Water Repellent</b> 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><b>Silane Water Repellent</b> protects against damage resulting from moisture intrusion and chloride ion penetration.</p> <p><b>Silane Water Repellent</b> is a 40% silane solution that does not mar glass or metal flashing.</p> <p><b>Recommended Uses:</b> Most Concrete and Masonry surfaces including:</p> <ul style="list-style-type: none"> <li>• Stadium Supports</li> <li>• Bridges and Bridge Structures</li> <li>• Parking Garages</li> <li>• Traffic Sound Barriers</li> <li>• Driveways</li> <li>• Sidewalks</li> <li>• Concrete &amp; brick patios</li> </ul> <ul style="list-style-type: none"> <li>• Tilt-up and poured-in-place walls</li> <li>• Concrete block</li> <li>• Split faced block</li> <li>• Fluted block</li> <li>• Brick (clay or cement)</li> <li>• Roof tile</li> <li>• Stucco</li> <li>• Mortar</li> </ul> <p><b><u>Do not use on asphalt surfaces.</u></b> <b><u>Not for immersion service.</u></b></p>	<p><b>Color:</b> Clear</p> <p><b>Coverage</b> <b>sq ft/gal</b></p> <table style="width: 100%;"> <tr> <td>Smooth precast concrete</td> <td>125-175</td> </tr> <tr> <td>Porous concrete</td> <td>100-150</td> </tr> <tr> <td>Split face block</td> <td>50-75</td> </tr> <tr> <td>Fluted Block</td> <td>25-50</td> </tr> <tr> <td>Concrete Block</td> <td>75-125</td> </tr> <tr> <td>Brick (Clay)</td> <td>100-150</td> </tr> <tr> <td>Bridge decks</td> <td>100-150</td> </tr> <tr> <td>Steel trowelled concrete</td> <td>150-200</td> </tr> </table> <p>Coverage will vary depending on the porosity and texture of the substrate.</p> <p><b>Drying Time, @ 77°F, 50% RH:</b> Temperature and humidity dependent Touch: 3 hours</p> <p><b>If a second coat is required to uniform the application, this product MUST be applied wet-on-wet.</b></p> <p><b>Vehicle Type:</b> Silane</p> <p><b>Flash Point, PMCC:</b> 55°F</p> <p style="text-align: center;"><b>A31T00040</b></p> <p><b>VOC (less exempt solvents):</b> 494 g/L; 4.12 lb/gal</p> <p><b>Active Content:</b> 40 ± 2%</p> <p><b>Weight per Gallon:</b> 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><b>Reduction in Chloride Ion Intrusion</b> Minimum Required ..... 75% Loxon Silane ..... 76%</p> <p><b>Water Repellency</b> Rilem Tube (72 hrs) ..... 79% Immersion (3 day) ..... 88%</p> <p><b>Alkali Resistance Tests:</b> 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><b>Alkali:</b> 5% NaOH ..... Pass 10% NaOH ..... Pass</p> <p style="text-align: center;"><b><u>SURFACE PREPARATION</u></b></p> <p><b>WARNING!</b> 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><b>Testing:</b> 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. 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>
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																	

# 107.33

# Loxon<sup>®</sup>

## 40% SILANE

## WATER REPELLANT

## A31T00040



### 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<sup>®</sup> 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 bottom up 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 repellency 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

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# MATERIAL SAFETY DATA SHEET

A31T40  
04 00

DATE OF PREPARATION  
Apr 30, 2011

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

A31T40

### PRODUCT NAME

LOXON® 40% Silane Water Repellent

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
60	67-63-0	2-Propanol		
		ACGIH TLV	200 PPM	33 mm
		ACGIH TLV	400 PPM STEL	
		OSHA PEL	400 PPM	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.  
**SKIN:** Prolonged or repeated exposure may cause irritation.  
**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.  
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2
Flammability	3
Reactivity	1

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.  
**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.  
**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.  
**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT  
55 °F PMCC

LEL  
2.0

UEL  
12.7

FLAMMABILITY CLASSIFICATION  
RED LABEL -- Flammable, Flash below 100 °F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are FLAMMABLE. 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.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

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.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	6.87 lb/gal	823 g/l
<b>SPECIFIC GRAVITY</b>	0.83	
<b>BOILING POINT</b>	178 - 181 °F	81 - 82 °C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	63%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)**

4.12 lb/gal 494 g/l Less Water and Federally Exempt Solvents  
4.12 lb/gal 494 g/l Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
67-63-0	2-Propanol	LC50 RAT	4HR	Not Available
		LD50 RAT		5045 mg/kg

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**US Ground (DOT)**

1 Liter (1.1 Quarts) and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1866, RESIN SOLUTION, 3, PG II, (ERG#127)

**Bulk Containers may be Shipped as:**

UN1866, RESIN SOLUTION, 3, PG II, (ERG#127)

**Canada (TDG)**

UN1866, RESIN SOLUTION, CLASS 3, PG II, (ERG#127)

**IMO**

1 Liter (1.1 Quarts) and Less may be Shipped as Limited Quantity.

UN1866, RESIN SOLUTION, CLASS 3, PG II, (13 C c.c.), EmS F-E, S-E,

ADR (D/E)

**IATA/ICAO**

UN1866, RESIN SOLUTION, 3, PG II

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



# THOROCLEAR® SPECIAL

## Clear reactive silicate water repellent

### Advantages

- Penetrating sealer – Does not alter surface appearance
- Breathable – Allows interior moisture vapor to escape
- Water repellent – Facilitates water runoff
- Water based, VOC compliant – Environmentally friendly

### Where to Use Thoroclear® Special

- Horizontal and vertical
- Concrete
- Aged limestone
- Interior or exterior

### How to Apply Thoroclear® Special

#### Surface Preparation

- 1 All surfaces must be structurally sound, clean, fully cured (28 days), and free of all dust, dirt, bitumens, efflorescence, oil, pollution deposits, all curing, forming, and parting compounds, and all other foreign matter. New stone should age a minimum of 1 year before sealing.
- 2 Complete all caulking, pointing, or restoration work before application and allow to cure. If application must precede such work, carefully avoid application of Thoroclear® Special to joint faces. Contamination may cause sealant adhesion problems.
- 3 For blemish or stainfree results, especially on light colored or white surfaces, surface cleanliness is critical.
- 4 Surface must be dry and free of frost. After rainfall, allow surface to dry 2 to 3 days or longer to avoid a hazing effect.

#### Application

- 1 Apply when surface and air temperatures are above 40°F (4°C) and below 90°F (32°C).
- 2 Apply directly from the container using a good quality brush, roller, or low-pressure sprayer.
- 3 For vertical substrates saturate the surface from the bottom up obtaining a 6 - 12 inch rundown.
- 4 Apply to horizontal surfaces in a uniform manner in sufficient quantity to completely wet out the substrate.
- 5 Care should be taken to treat in one coat prior to drying. Thoroclear® Special will repel itself.

#### Clean Up

Clean all tools and equipment directly after use with soap and water.

### For Best Performance

- Slight darkening might occur on some limestones containing slate or iron; test panels are suggested.
- A test application is recommended to determine coverage rate, water repellence, and appearance.
- Thoroclear® Special is a water-repellent system; where a waterproofing system is required, contact Technical Service for recommendation on other Thoro products.
- Not recommended for application to aluminum plastics, foam insulation, or any EIFS system.
- Certain combinations of aggregates, cements, and manufacturing processes may cause Thoroclear® Special to darken or excessively highlight substrates; darkening or highlighting may particularly be a problem when variations in shading occur in colored concrete. Conduct a test on the actual substrate before applying to entire project.
- Will not inhibit water penetration through unsound or cracked surfaces or areas with defective flashing, caulking, or structural waterproofing.
- Do not not apply during inclement weather, or if rain is expected within 8 hours.
- To prevent damage to nearby shrubbery and landscaping, cover or protect with drop cloth. Also protect incidental glass, metal, and plastic building components, including polystyrene beadboard and fiberglass.
- Do not use on previously painted surfaces.
- Protect from freezing. Frozen material should be placed in a warm spot to thaw. Do not force thawing by direct heat.
- Do not use Thoroclear® Special on brick, freshly quarried stone or slate.
- Make certain the most current version of this data guide is being used; call Customer Service (1-800-433-9517) to verify the most current version .
- Proper application is the responsibility of the user. Field visits by ChemRex Inc. personnel are for the purpose of making technical recommendations only, and are not to supervise or provide quality control on the job site.

## Order Information

### Packaging

Thoroclear® Special

- 1 gallon (3.8 L) cans
- 5 gallon (19 L) cans
- 30 gallon (114 L) drums
- 55 gallon (208 L) drums

### Coverage

- 200 - 300 sq. ft. per gallon (4.9 - 7.4 m<sup>2</sup>/L), varies with porosity of surface

## Warning

Thoroclear® Special contains potassium methyl silicate and water

### Risks

May be irritating to the eyes and skin. Inhalation of vapors may cause irritation to nose, throat and lungs.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Use appropriate personal protective equipment while mixing or handling this product. Avoid contact with skin and eyes. Use splash-proof goggles or other protective eyewear meeting the most current ANSI Z87.1 standards. Use impervious gloves while handling. Use in ventilated area. If poor ventilation exists, use organic vapor or similar type NIOSH approved respirator.

## First Aid

In case of eye or skin contact, flush eyes or exposed area thoroughly with water. If irritation persists call a physician. If swallowed, CALL A PHYSICIAN IMMEDIATELY. Only induce vomiting at the instruction of a physician. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Use in a well ventilated area. Avoid breathing mists and vapors. If needed use a MSHA/NIOSH approved respirator.

## Spills/Storage

Use mild acid solution (acetic acid) to neutralize spills. Clean up spills using sand or other inert materials. Keep spills out of sewers and bodies of water. Material is non-combustible. For further information and handling instructions read the appropriate Thoro System Products Material Safety Data Sheet.

For more information see Material Safety Data Sheet (MSDS) for this product.

## Proposition 65

This product does not knowingly contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

## VOC Content

0 g/L.

**For help in chemical emergencies involving spills, leaks, fire or explosion, call ChemTrec toll free, 1-800-424-9300 day or night.**

**Customer Service:** 1/800/433-9517

**Technical Services:** 1/800/ChemRex (1/800/243-6739)

**Web Site:** [www.chemrex.com](http://www.chemrex.com)

### Limited Warranty Notice

Every reasonable effort is made to apply ChemRex Inc. exacting standards both in the manufacture of our products and in the information which we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, CHEMREX INC. MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and CHEMREX INC. shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the ChemRex Inc. Technical Manager.



**ChemRex Inc.**

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**Manufacturing Plants:** Allentown, PA; Bloomington, MN; Bristol, PA; Caguas, PR; Centerville, IN; Denver, CO; Forest Hill, TX; Fort Wayne, IN; Gurnee, IL; Houston, TX; Lancaster, TX; Marietta, GA; Mattawan, MI; Newark, CA; Rancho Cucamonga, CA; Reynolds, GA; Seattle, WA; Streetsboro, OH; Tipp City, OH; Toronto (Canada); Montreal (Canada); Edmonton (Canada)

**Regional Warehouses:** Atlanta, GA; Aurora, OH; Brampton, Ontario (Canada); Chicago, IL; Dallas, TX; Fairfield, NJ; Hayward, CA; Ontario, CA

