



**VEXCON**  
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974  
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## CERTI-VEX® GUARD CLEAR

ONE STEP CURE AND PENETRATING WATER REPELLENT SEALER  
STAIN PROTECTION • HORIZONTAL & VERTICAL

### DESCRIPTION

**CERTI-VEX GUARD** is a clear proprietary one step penetrating water repellent cure and seal that can be applied to new or existing concrete. It immediately penetrates the pores and capillaries of the concrete reacting with the alkali and moisture to form a hydrophobic gel in the pores and a water retentive film on the surface.

This membrane, which meets ASTM curing requirements and the Chloride Ion Penetration requirements of NCHRP 244 forms a film that restricts moisture loss allowing concrete to reach maximum hardness and reduces staining, chloride migration, stops intrusion of water, salts, deicer chemicals and acids that can result in costly damage to concrete and masonry.

This innovative one-step product eliminates the costly removal of curing compounds and time consuming water curing and leaves the surface cured and water repellent in one application. The final film has excellent moisture vapor transmission rates while excluding water and chloride ion penetration.

### BENEFITS

- An effective chloride screen
- Cures fresh concrete
- Vexcon breathable technology
- Deep penetration for maximum protection
- Especially suitable for alkaline concrete surfaces. Prolongs the surface life and prevents damage from within by maintaining vapor permeability of concrete
- Quick formation of surface repellency and chemical resistance
- Enhances surface appearance providing greater stain and oil resistance
- Non-yellowing
- Available in three gloss levels

### RECOMMENDED FOR

Infrastructure, transportation, commercial and residential applications and any new and existing concrete that requires the long term protection of a water repellent sealer and a high performance stain resistant protective coating. It may be used as a water and stain repellent on vertical surfaces, on cast in place and pre-cast concrete or concrete block.

### SPECIFICATIONS/COMPLIANCE

- VOC <700 grams/liter :or 5.83 #/gal  
Meets:
  - US EPA AIM: Concrete Curing and Sealing Compounds
- ASTM C-1315 Type 1 Class A
- NCHRP 244 Chloride Ion
- Reduction using NCHRP 244 series IV and Moisture Vapor Transmission.
- Meets OSHA and ADA Non-slip (ASTM D2047)
- USDA approved
- CSI Reference: [03 35 00], [03 39 00], [07 19 13], [09 96 00]

### APPLICATION NOTES

- Prior to application a test area must be performed to determine proper application rate, techniques and required surface preparation.
- Application of Certi-Vex Guard may be done with a short 1/4" nap roller, brush or low-pressure industrial sprayer with neoprene fitting.
- Use a roller pan to take off excess product. Do not dip and roll or pour and spread.
- The product is supplied ready to use, do not dilute.
- Do not apply over free standing water.
- Application to damp surfaces is acceptable.

### SURFACE PREPARATION

- The surface must be properly cleaned. Use one of Vexcon's surface preparation and cleaning products to properly clean the surface prior to application.
- The surface must be properly repaired and structurally sound. Use a Vexcon repair mortar to correct any surface defects.
- Large cracks should be repaired using **PowerCoat® Epoxy Flexible Joint Sealant**
- All caulking, patching and joint sealants should be installed in accordance with ACI standard specifications.

### APPLICATION VERTICAL

- Begin application from the highest point; top to bottom.
- Roll or spray sufficient product to completely absorb and cover the surface.
- Succeeding passes must lap the previous run down. Do not over apply.
- Do not allow excess product to build on surface. Coverage depends on porosity.
- Check dried area for absorption and apply a second coat if necessary. For best coverage, apply the second coat perpendicular/90° to the first coat.

### CURING AND SEALING NEW CONCRETE

- Apply in a single saturating application with sufficient material applied so that the surface remains wet for a few minutes before penetration.
- Surface residues, pools and puddles should be evened out until they completely penetrate into the surface.
- Remove efflorescence and laitance with **Certi-Vex Etch & Efflorescence Remover**.
- Apply Certi-Vex Guard three hours after the concrete has received final finishing and all gauging water has been absorbed. See Coverage Section for first coat application rate.

### SHORT SPECIFICATION

[03 35 00] [03 39 00] [07 19 13] [09 96 00]: Basis of design, VOC compliant, clear silane/acrylic curing and sealing compound, water and stain repellent. Conforming to ASTM C-1315 type 1 Class A and NCHRP 244 series IV as manufactured by Vexcon Chemicals.

## SEALING EXISTING CONCRETE

- Apply in a single saturating application with sufficient material applied so that the surface remains wet for a few minutes before penetration.
- Surface residues, pools and puddles should be evened out until they completely penetrate into the surface.
- To determine that the concrete is penetrable perform a water absorbency test by applying water to a representative portion of the prepared concrete floor. A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.
- If required use Certi-Vex Etch & Efflorescence Remover to improve penetration.
- The concrete should be coated at coverage rate described below and allowed to completely penetrate the surface with no puddles, ponding or wet spots.
- If a liquid membrane curing compound has been used to cure the concrete, the surface can be water blasted to remove the coating and any dirt, dust, contaminants or use **Certi-Vex Concrete Stripper** to remove old sealers, grease, dirt and curing compounds. If the concrete has been water cured, the concrete must be free of any dirt, dust and contaminants and water blasting is recommended prior to the application.

## SECOND COAT

- A second coat is recommended if the initial first coat is damaged or a higher gloss protective top coat is desired.
- Before applying a second coat, the concrete surface should be cleaned free of dust, surface dirt and contaminants.
- Concrete that has become heavily contaminated with surface dirt, tire marks, oil, etc., during construction may require thorough cleaning for best performance of the second coat. See Coverage Section.

## SPECIAL NOTES

- The product should be stored in sealed containers and kept away from extreme heat
- Protect application area from rain for 4 hours
- May show rubber burns
- May cause bleeding on bituminous surfaces
- May cause mottling of colored surfaces
- Not gasoline resistant. Use Vexcon **PowerCoat Epoxy LD**
- Equipment clean up: Use Certi-Vex Equipment Cleaner
- Do not topcoat
- Shelf life: If properly stored in its original sealed container, three years from date of manufacture. Rotate your Stock.
- For use by experienced contractors
- Adjoining glass, metal and painted surfaces should be protected from over spray. Inadvertent splashes should be removed using Certi-Vex Equipment Cleaner before the solution has dried on the surface.
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.

**CONTACT US@** Additional product information, technical assistance and customer service are available by contacting Vexcon Chemicals directly or our distributors.

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- customerservice@vexcon.com
- sales@vexcon.com
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## HEALTH AND SAFETY

- Use only with adequate ventilation.
  - Use of gloves, goggles and other protective clothing is advised when using this product
  - If swallowed, do not induce vomiting.
  - Use of respirators is advised when using in confined areas.
- Vexcon MSDS PS I04 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using product, obtain a copy of the MSDS, from your distributor or by contacting Vexcon Chemicals

## PACKAGING

Certi-Vex Guard is available in 55-gallon drums and 5-gallon pails. Contact Vexcon to discuss your customized packaging requirements.

## PHYSICAL PROPERTIES

- Color Clear
- Dry Time <4 hours
- Wt/Gallon 7.03#
- Solids 25% - 30%

## MAINTENANCE

Spills should be removed promptly and cleaned with **Certi-Vex Super Degreaser**. Floors should be cleaned regularly. Periodic reapplication may be required as the sealer wears off.

## COVERAGE/ESTIMATING

Porosity and texture of the surface will affect the amount of material necessary for effective treatment. The following is a guide for estimating material requirements for concrete.

Perform a test area to determine proper application rate.

- First Coat: 125 sq.ft/gal (3.1 m<sup>2</sup>/L)
- Second Coat/Sealing Coat: 300 sq.ft/gal (7.5 m<sup>2</sup>/L)

## TEST RESULTS - CTL PROJECT NO.: 105869

Final results for Certi-Vex Guard submitted for testing for Utah Department of Transportation Concrete Sealer Freeze/Thaw Wt Loss. Pass 3.1% WT. Loss vs. 6.0% Allowed  
Weight Monitoring of Specimens Subjected to Utah DOT concrete sealer freeze/thaw tests oven dry weights in grams after indicated freeze/thaw cycles

Product Identification	Specimen #	0	304 Cycles
Certi-Vex® Guard #73F16	A	276.7	268.8
	B	273.6	264.5
	C	274.0	265.3
Controls	A	272.4	Failed**
	B	274.6	Failed**
	C	275.5	Failed**

Notes:

\*\* Controls failed and turned into rubble after 118 F/T cycles. After 47 cycles, controls were in poor condition.

## PERFORMANCE DATA\*\*

WT/GAIN %	Certi-Vex Guard	Commercial Control	Siloxane*
1 coat @125 Sq.ft. /gal			
Average of 5 blocks	1.09%	8.2%	.95%
	<b>Minimum Req.</b>	<b>CV Guard</b>	<b>Siloxane*</b>
% Reduction in water absorption	75%	86.7%	88.4
% Reduction of Chloride Ion Content	75%	85.7%	70.3%
Water vapor transmission	100%	104%	116%
	*Reported in literature		

## WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES.

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