



VEXCON
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974
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STARSEAL® GUARD DC

ONE STEP DISSIPATING CURE AND PENETRATING WATER REPELLENT SEALER
LONG TERM PROTECTION

DESCRIPTION

STARSEAL GUARD DC is a water base innovative one step penetrating silane water repellent dissipating white curing compound that is applied to new freshly placed concrete. It immediately penetrates the pores and capillaries of the concrete reacting with the alkali and moisture to form a repellent hydrophobic gel in the pores and a water retentive membrane on the surface.

The product, which meets ASTM C-309 curing requirements and the Chloride Ion Penetration requirements of NCHRP 244 forms a temporary film that restricts moisture loss allowing concrete to reach maximum strength and durability. When the curing compound wears off, the concrete remains protected from the harmful affects of freeze thaw cycles, salts and deicer chemicals that can result in costly damage to concrete.

This innovative one-step product eliminates the costly removal of curing compounds and time consuming water curing of fresh concrete when a protective penetrating water repellent sealer is desired. Once applied, the surface is properly cured and water repellent in one application and puts concrete into service weeks sooner.

BENEFITS

- Complete projects faster
- Cures fresh concrete
- Seal & protect concrete against damage from salt & moisture
- Produce stronger, more durable and longer lasting concrete
- Meets industry standards
- Cost savings
- Deep penetration for maximum protection

RECOMMENDED FOR

- Roadway ramps, overpasses and median strips
- Walk & Entrance ways
- Median barriers
- Sidewalks, curbs and gutters
- Bridge and parking decks

SHORT SPECIFICATION

[03 39 23] [07 19 13]: Basis of design, VOC compliant, water base clear silane/ curing compound and water repellent. Meet or exceed NCHRP 244 series IV and ASTM C642 tests, reducing water and salt penetration by > 85%. Conforming to ASTM C309/AASHTO M148 type 2 Class A & B as manufactured by Vexcon Chemicals

SPECIFICATIONS/COMPLIANCE

- VOC <100 grams/liter or <0.83 #/gal
- Meets:
 - US EPA AIM: Concrete Curing Compound/Waterproofing Sealer
 - OTC, LADCO/MRPO, CEPA/EC – Concrete Curing Compound/Waterproofing Sealer
 - CARB – Concrete Curing Compound/Reactive Penetrating Sealer
 - SCAQMD – Concrete Curing Compound/Waterproofing Sealer
- ASTM C309 & AASHTO M148 Type 2 Class A & B
- ASTM E96 Water Vapor Permeability - 94%
- ASTM C457 Depth of Penetration - 0.18-0.21"
- ASTM C642 Water Absorption Reduction in Hardened Concrete - 89%
- NCHRP 244 Series IV
Reduction of Absorbed Chloride into Concrete
- Series IV > 85%
- CSI : [03 39 23], [07 19 13]

CURING NEW CONCRETE

- Thoroughly mix by air or mechanical methods before each use to ensure best results and ease of application
- Apply by brush, roller or sprayer; however, application by sprayer is preferred. The sprayer should generate at least 40 psi (275 kPa) and spray 1/2 gallon (2 L) of material per minute.
- Apply StarSeal Guard DC after the concrete has received final finishing and all gauging water has been absorbed and concrete can be walked on. Apply at 200 sq.ft./gal. or more depending on the method of application or specification requirement.
- Surface residues, pools and puddles should be evened out until uniform.
- **COAT UNIFORMLY - LEAVE NO GAPS**

SPECIAL NOTES

- StarSeal Guard DC will slowly flake off after exposure to UV, weathering and traffic.
- If removal is required, power washing, brushing or use **Certi-Vex Super Degreaser Cleaner**
- Mix well before each use.
- Do not thin this product.
- Avoid storing and using during periods of excess heat.
- Do not apply to interior concrete.
- Do not apply on excessively windy days.
- It is recommended that Vexcon **StarSeal Assist**, evaporation retarder be used when excessive heat or wind is anticipated during application.
- For best application results, surface temperatures should be between 40°F to 85°F (4.4°C to 29°C).
- Shelf Life: If properly stored in its original container, one year.
- Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- 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.
- Storage/ Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care should be taken to keep dirt, water and contaminants away from the opening of containers.

PACKAGING

StarSeal Guard DC is available in 275-gallon totes, 55-gallon drums and 5-gallon pails. Contact Vexcon to discuss your customized packaging requirements.

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 SDS PS134 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 SDS at vexcon.com.

CONTACT US@

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

- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- Fax: 215.332.9997

WARRANTY

LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon's published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option 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 OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.

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