



**VEXCON**  
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974  
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## STARSEAL® 1315

ASTM C1315 CLASS A WATER BASE CURE AND SEAL  
NON-YELLOWING • GLOSS • LOW ODOR

### DESCRIPTION

STARSEAL 1315 is a premium clear water based emulsion non-yellowing, curing, sealing, hardening, dust proofing and water repellent compound. The product is designed for use on exterior and interior above and below grade architectural concrete where a premium, long lasting, vibrant gloss and shine is required. The product is manufactured from a proprietary Acrylate stabilized resin emulsion that is produced in-house by computerized manufacturing systems. Independent laboratory testing confirms that the product's non-yellowing characteristics outlast and outperform competitive products, and equals the performance of pure acrylic systems. StarSeal 1315 features Vexcon's breathable technology which allows moisture vapor to pass through rather than becoming trapped, preventing whitening, peeling and flaking. Ideal clear protection for exterior new and existing concrete floors, stamped and decorated concrete, stucco or brick walls, architectural sections, retarded concrete and vertical walls.

### BENEFITS

- Clear protection for exterior new and existing concrete floors
- Apply to damp surfaces without whitening or loss of adhesion
- Provides for complete development of concrete's wear resistance and strength properties
- Excellent protection against staining, attack by alkali, oil, cleaners and common industrial chemicals
- Low odor
- Non-yellowing, surface remains clear
- Prevents efflorescence, dusting and spalling
- Seals and hardens surface reducing clean up and maintenance
- Alkali Blocker
- Excellent base for adhesives
- Vexcon's breathable technology
- Surfaces look newer and brighter

### APPLICATION

- Product is supplied at the proper consistency for application and dilution will reduce efficiency and gloss.
- Thoroughly mix before applying.
- To improve non-slip profile use **Certi-Vex® Grip**.
- Note: product forms a surface film quickly depending on temperature, humidity and wind conditions therefore, for best results follow all equipment and application instructions carefully.

#### **If applying by sprayer:**

- Apply by low-pressure high solids commercial grade solvent resistant sprayer with neoprene fittings. (Do not use garden or form oil sprayers).
- The sprayer must be clean and dry. If cleaning with solvents is required, use **Certi-Vex Equipment Cleaner** then flush with water. Clean sprayer as directed between applications to ensure best results.
- If spraying and back rolling, best application is to spray enough material that a second person can immediately back roll following the spray applicator. Follow roller instructions below. Caution; do not delay the back roll as the area will dry quickly.

#### **If applying by roller:**

- For best results use Vexcon's **EvenFlow Applicator** or ¼ " nap mohair roller.
- Use a roller pan to take off excess product. Do not dip and roll or pour and spread
- Do not over-work material, apply in a single lapping motion. Do not roll area back and forth, this can cause the film to break and product to become stringy.
- Do not run roller dry, keep a wet edge and do sections small enough to roll only once over wet material.
- Do not roll over dry material this can cause the product to become stringy. To aid in keeping roller wet and fluid, keep a roller pan filled with **Certi-Vex Equipment Cleaner**.
- Over rolling or using incorrect rollers will cause bubbles to form in the coating. If this occurs on final coat corrective procedure is to apply a light coat of **Certi-Vex Coating Repair** over the area. This will recast (heal) the coating and eliminate the bubbles. If this occurs on first coat, follow corrective procedure above then apply final coat.
- Material should not be allowed to puddle.
- Do not allow sealed area to become wet with water until dry. See dry times.
- Protect all surrounding areas from over spray.
- The sealer can be applied to damp surfaces, however, do not apply over puddled water.
- A uniform appearance requires even coats leaving no gaps. Some areas may be more porous than others; these areas may require additional coats to even out the appearance. Caution: Do not over-apply material. See Special Notes section.

### CURING AND SEALING NEW CONCRETE

- Apply StarSeal 1315 to still damp freshly finished concrete as soon as the surface cannot be marred, and water sheen disappears. Do not apply over freestanding water.
- If application is delayed, concrete must be kept wet (preferably by water spray mist) until product can be applied.
- If concrete is allowed to dry use **StarSeal EF Safe Etch** to clean and prepare the surface.
- Apply first coat at 300 sq.ft/gal (7.5m<sup>2</sup>/L). A second coat is recommended for long term durability. See Second Coat section.

### SURFACE PREPARATION EXISTING CONCRETE

- The concrete surface must be properly repaired, structurally sound and cleaned. Use Vexcon's surface prep and cleaning products to properly clean the surface prior to application.
- To remove coatings such as epoxies, sealers and curing compounds use **StarSeal EF Stripper**.
- The concrete should be cleaned with **StarSeal EF Degreaser & Cleaner** to remove any dust, dirt or debris and allowed to dry for a minimum of 24 hours after cleaning.
- To remove efflorescence or to etch the surface for improved material penetration use **StarSeal EF Safe Etch**
- There should be no freestanding water.
- Large cracks should be repaired using **PowerCoat Epoxy Flexible Joint Sealant**.

## SEALING EXISTING CONCRETE

- Prior to application a test area must be performed to determine proper application rate and required surface preparation.
- 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 StarSeal EF Safe Etch to improve sealer penetration. Application to still damp surfaces is acceptable however free standing water must be removed.
- Apply StarSeal 1315 at 400-500 sq.ft./gal (10-12.5 m<sup>2</sup>/L) on hard non-porous floors and 250-300 sq.ft./gal (6.2-7.5 m<sup>2</sup>/L) on porous floors.

## SECOND COAT

Apply after 1st coat has dried at 400-500 sq.ft./gal (10-12.5 m<sup>2</sup>/L).

## TOPCOATS AND ADHESIVES

StarSeal 1315 cured concrete can be topcoated with a variety of paints, adhesives, and mastics, a minimum of 14 days after application. It is strongly suggested that a test area be applied prior to coating the entire surface since products can adhere to concrete in varying degrees. Concrete cured with StarSeal 1315 is typically topcoated without incident; however, it is advisable to check with manufacturer of the topcoat for any precautionary and compatibility information.

## MAINTENANCE

Spills should be removed promptly and cleaned. Sealed areas should be cleaned regularly, use StarSeal EF Degreaser & Cleaner for all cleaning requirements. Periodic reapplication may be required as the sealer wears off.

## SPECIAL NOTES

- To assist in application note, 200 sq.ft./gal wet film is approximately equal to the thickness of a sheet of paper.
- Will tend to show rubber burns or tire marks.
- May cause bleeding of bituminous surfaces.
- May enhance mottling of colored surfaces.
- Not gasoline resistant, use PowerCoat® Coatings products
- Application of more than two coats is not recommended
- Over application may lead to surface discoloration and improper sealer performance.
- Mix well before each use.
- Keep from freezing.
- Do not apply more material per square foot than specified.
- Can apply when surface temperatures are 40°F - 85°F, when below or above these ranges review Vexcon's Cold and Hot Weather Application Guides.
- Shelf Life: If properly stored in its original sealed container, two years from date of manufacture. Rotate your stock.
- For use by experienced applicators
- 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.

## SPECIFICATIONS/COMPLIANCE

- VOC: <300 grams/Liter or <2.92 #/gal
- Meets:
  - US EPA AIM - Concrete Curing and Sealing Compounds
  - OTC - Concrete Curing Compounds
  - LADCO/MRPO - Concrete Curing Compounds
  - Canada - Concrete Curing Compounds
  - CARB - Concrete Curing Compound
  - SCAQMD - Rule 1113- Concrete Curing Compound for roads and bridges.
- LEED NC category/points: For detailed information visit [vexcon.com/green](http://vexcon.com/green).
  - EQ 4.2 - 1 point
  - MR 2.1/2.2 - 1 point
  - MR 5.1/5.2 - 1 point
- ASTM C1315 Type 1 Class A
- AASHTO M-148
- ASTM C309 Type 1, Class A&B
- Federal Specification TT-C-800-A (USA FSS) Type 1
- USDA approved
- Meets ADA and ASTM D 2047 non-slip
- ASTM G154 - passes Class A 300 hour UV resistance
- Test Reports are available upon request
- CSI reference: 03 39 00, 09 96 00

## PACKAGING

StarSeal 1315 is available in 55-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

## PHYSICAL PROPERTIES

- Wet appearance Milky White
- Dry appearance Clear
- Dry - tack free 25 minutes
- Foot traffic 24 hours
- Vehicle traffic 72 hours
- Solids 25% minimum

Note: All calculations based upon 68-77°F (20-25°C).

Lower temperatures and relative humidity will extend dry times.

## 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.
- MSDS #CS106 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product obtain a copy of the MSDS from your distributor or by contacting Vexcon Chemicals.

## CONTACT US @

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

• <a href="http://vexcon.com">vexcon.com</a>	• <a href="mailto:sales@vexcon.com">sales@vexcon.com</a>
• <a href="mailto:techservice@vexcon.com">techservice@vexcon.com</a>	• Voice: 888.839.2661
• <a href="mailto:customerservice@vexcon.com">customerservice@vexcon.com</a>	• Fax 215.332.9997

## 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. 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.