



VEXCON
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974
888-839-2661 | sales@vexcon.com | 7240 State Road | Philadelphia, PA 19135 vexcon.com

STARSEAL® 1500

ASTM C1315 CLASS A WATER BASE CURE AND SEAL
NON-YELLOWING • HIGH GLOSS • GREATEST UV PROTECTION

DESCRIPTION

STARSEAL 1500 is a clear high gloss water based emulsion non-yellowing, curing, sealing, hardening, dust proofing and water repellent compound. The product provides the greatest protection to UV exposure and is designed for use on exterior above grade architectural concrete where a premium, long lasting, vibrant gloss and shine is required. Independent laboratory testing confirms that the product's non-yellowing characteristics outlast and out perform competitive products and equals the performance of pure acrylic systems. StarSeal 1500 features Vexcon's breathable technology which allows moisture vapor to pass through rather than becoming trapped, preventing whitening, peeling and flaking. High gloss clear protection for exterior and interior applications on new and existing concrete floors, stamped and decorative concrete, stucco or brick walls, architectural sections, retarded concrete, exposed aggregate, and vertical walls.

BENEFITS

- Provides for complete development of concrete's wear resistance and strength properties
- Non-yellowing, surface remains clear
- Ideal for high UV exposed environments
- Seals and hardens surface, reducing clean-up and maintenance
- Excellent protection against staining, attack by alkali, oil, cleaners and common industrial chemicals
- Prevents efflorescence, dusting and spalling
- Vexcon breathable technology
- Excellent base for adhesives
- Apply to damp surfaces without whitening or loss of adhesion
- Low odor

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 Concrete 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 Joint Sealant**.

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 so 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 1/4" nap mohair roller.
- Use a roller pan to take off excess product. Do not dip & roll, or pour & 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 as this can cause the product to become stringy. To aid in keeping roller wet and fluid, keep a roller pan filled with water.
- 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 or standing 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 1500 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 **Certi-Vex® Concrete Etch & Efflorescence Remover** to clean and prepare the surface.
- Apply first coat at 300sq.ft./gal (7.5m²/L). A second coat is recommended for long term durability. See **Second Coat** section.

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 Certi-Vex Etch & Efflorescence Remover to improve sealer penetration. Application to still damp surfaces is acceptable; however, free standing water must be removed.
- Apply StarSeal 1500 at 400-500sq.ft./gal (10-12.5 m²/L) on hard non-porous floors and 250-300sq.ft./gal (6.2-7.5 m²/L) on porous floors.

SECOND COAT

Apply after 1st coat has dried at 400-500sq.ft./gal (10-12.5 m²/L).

TOPCOATS AND ADHESIVES

StarSeal 1500 cured concrete can be top-coated with a variety of paint, adhesives and mastics, a minimum of 28 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. Check with manufacturer of the topcoat for any precautionary and compatibility information.

SPECIAL NOTES

- To assist in application, note: 200sq.ft./gal wet film is approximately equal to the thickness of a sheet of paper.
- Will tend to show rubber burns or tire marks
- Will cause bleeding of bituminous surfaces
- May enhance mottling of colored surfaces
- Not gasoline resistant; use PowerCoat Epoxy products
- Over application may lead to surface discoloration and improper sealer performance.
- Mix well before each use
- Do not apply more material per square foot than specified
- Keep from freezing
- Can be applied when surface temperatures are 40°F - 85°F (4°C - 30°C); 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.

MAINTENANCE

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

SPECIFICATIONS / COMPLIANCE

- VOC - <250grams/liter or <2.09#/gal.
- Meets:
 - USEPA AIM-Concrete Curing and Sealing Compounds
 - OTC-Waterproofing Concrete/Masonry Sealers
 - LADCO- Waterproofing Concrete/Masonry Sealers
 - Canada – Waterproofing Concrete/Masonry Sealers
 - CARB – Waterproofing Membrane
- LEED NC category/points: For detailed information visit www.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 OSHA/ADA non-slip ASTM D2047
- ASTM G154 – passes 1500 hour UV resistance
- CSI reference: 03 39 00
- Test Reports are available upon request.

PACKAGING

StarSeal 1500 is available in 55-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

VITAL STATISTICS

- Flash Point (TCC): >200°F / >96°C
- Boiling Point: 212°F / 100°C
- Autoignition Temp: ND
- Extinguishing Media: Foams, Dry Chemical, CO₂, Water Fog

PHYSICAL PROPERTIES

Wet appearance: Milky White
Dry appearance: Clear
Dry - tack free: 25 minutes
Foot traffic: 24 hours
Vehicle traffic: 72 hours
Solids: 30% minimum

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

Lower temperatures and higher 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 CS108 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 directly.

CONTACT US @

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

- vexcon.com
- sales@vexcon.com
- techservice@vexcon.com
- Voice: +1 888.839.2661
- customerservice@vexcon.com
- Fax: +1 215.332.9997

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 MERCHANT ABILITY 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, DOWNTIME, 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.