



STARSEAL[®] 1500

ASTM C1315 TYPE 1, CLASS A 500 HOUR UV • NON-YELLOWING
EMULSION CURE AND SEAL • HIGH GLOSS

VOC Content: 285 gr./liter or 2.38 #/GAL. – Cure and Seal

DESCRIPTION

STARSEAL 1500, is a clear water based emulsion non-yellowing, curing, sealing, hardening, dust proofing and water repellent compound. The product provides the greatest resistance 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.

The product is manufactured from a proprietary vinyl toluene 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 out perform competitive products and equals the performance of pure acrylic systems. Easily applied, StarSeal 1500 quickly forms a hard clear, film that is permanent, tough, water repellent, dust proof, chemical resistant and non-yellowing.

The product provides premium performance for exterior applications on new and existing concrete floors, stucco or brick walls, architectural sections, retarded concrete and vertical walls. It is also an ideal base coat for paints, tiles, adhesives and carpet, meeting the requirements of the Resilient Tile Institute and the Tile Adhesion Test Requirements of ASTM C 1315.

BENEFITS

- Provides for complete development of concrete's wear resistance and strength properties
- Seals stamped and decorated concrete
- Non-yellowing, surface remains clear
- 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
- Low moisture transmission rates
- Quick drying
- Excellent base for adhesives
- Re-coatable and paintable
- Apply to damp surfaces without whitening or loss of adhesion
- Low odor
- High gloss

APPLICATION

Product is supplied at the proper consistency for application and dilution will reduce efficiency. Thoroughly mix before applying. Apply by low-pressure high solids commercial grade sprayer with neoprene fittings. The sprayer must be clean, dry and free of solvents. If cleaning with solvents is required, use **Certi-Vex[®] Equipment Cleaner** and flush thoroughly with water before use. Clean sprayer as directed between applications to ensure best results. If sprayer is not available, use a brush or ¼" roller. If using a roller or applicator, do not overwork the material. Coat in one direction only. Overworked material can become stringy and gum up. Coat uniformly leaving no gaps, slips or excess. Material should not be allowed to puddle. To protect the sealed floor from ongoing construction dust, dirt and debris, use **Certi-Vex[®] Talc Release**, data sheet #OP132 until all construction work is completed. Use **Certi-Vex[®] Grip**, data sheet #OP115 to improve non-slip profile.

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 300 sq.ft./gal (7.5 m²/L). A second coat is recommended for long term durability. See Second Coat section.

SEALING EXISTING CONCRETE

To provide long term protection and a glossy shine, apply to surfaces that are properly repaired and structurally sound, porous to allow for penetration, cleaned of all dirt, oil, grease and foreign matter. Use one of **Vexcon's concrete cleaners and stain removal products** to properly clean the surface prior to application. Use **Certi-Vex[®] Concrete Stripper** to remove old sealers, epoxies, urethanes, adhesives, curing compound and floor waxes. 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 400-500 sq.ft. /gal (10-12.5 m²/L) on hard non-porous floors and 250-300 sq.ft. /gal (6.2-7.5 m²/L) on porous floors. A second coat is recommended for long term durability and gloss. See Second Coat section.

SECOND COAT:

After application of the first coat a second coat may be applied when the surface has dried. Apply second coat at 400-500 sq.ft. /gal (10-12.5 m²/L).

TOPCOATS AND ADHESIVES

StarSeal 1500 cured concrete can be topcoated 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. Concrete cured with StarSeal 1500 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 with a high quality commercial detergent. Floors should be cleaned regularly. Periodic reapplication may be required as the sealer wears off.

SPECIFICATIONS/COMPLIANCE

- Meets EPA and AIM VOC regulations
- ASTM C 1315 Type 1, Class A
- AASHTO M-148.
- ASTM C 309, Type 1 Class A&B
- Federal Specification TT-C-800-A (GSA FSS) Type 1
- USDA, ADA and ASTM 2047 non-slip
- VOC Compliant: 285 gr./liter or 2.38 #/GAL. Cure and Seal
- Passes 500 hours weatherometer resistance as measured by ASTM G 53

Test reports are available upon request.

SPECIAL NOTES

- To assist in application please 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
- Will cause bleeding of bituminous surfaces
- May cause mottling of colored surfaces
- Not gasoline resistant – Use Vexcon **Powercoat® GR**
- Over application may lead to surface discoloration and improper sealer performance.
- Mix well before use
- Do not apply more material per square foot than specified
- Keep from freezing
- 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.
- If properly stored in its original sealed container, two years from date of manufacture. Rotate your stock.
- For use by experienced professionally trained applicators

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°)
- 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 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, it is advisable to 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.

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