STARSEAL® 1315 CONCRETE STAIN
ASTM C-1315 TYPE II, CLASS B
WATER BASE COLORED CURING AND SEALING COMPOUND

DESCRIPTION

STARSEAL 1315 CONCRETE STAIN is a water based ready to use water based emulsion non-fading colored curing and sealing compound that quickly forms a decorative hard, dustproof, water repellent, chemical resistant film on new and existing concrete surfaces. This film hardens to a wear resistant sealer that enhances and revitalizes the appearance of new or existing concrete. Provides protection from moisture, deicing salts, staining and other harmful environmental elements. StarSeal 1315 Concrete Stain features Vexcon’s breathable technology which allows moisture vapor to pass through rather than becoming trapped, preventing whitening, peeling and flaking. The product is ideal for both interior and exterior applications, stamped and decorated concrete, concrete pavers, stucco or brick walls, architectural sections, and colored concrete to even out color variations. StarSeal 1315 Concrete Stain will penetrate into the concrete surface to provide a uniform and long lasting color and also can be faux painted or wiped to vary the surface appearance.

APPLICATION

- Product is supplied at the proper consistency for application and dilution will reduce efficiency and gloss.
- Thoroughly mix with a jiffy type mixer 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.
  - Best results using 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 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.

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 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.

CURING AND SEALING EXISTING CONCRETE

- Thoroughly mix with a jiffy type mixer 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.

APPLICATION OVER CERTI-VEX® AC OR STARSEAL® CLEAR CURE & SEALS

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 tapping 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 Coating Repair.
- Over rolling or using incorrect rollers will cause bubbles to form in the coating. 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 time:

- Curing time is 8 hours or longer depending on temperature, humidity and wind conditions. 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 single tapping 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 Coating Repair. 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 equipment cleaner 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.
**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 Certi-Vex Etch & Efflorescence Remover.
- There should be no freestanding water.
- Large cracks should be repaired using Powercoat Epoxy 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 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 1315 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.

**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.

**PHYSICAL PROPERTIES**
- Color 15 standard colors
- Solids 25% minimum
- Dry - tack free 25 minutes
- Foot traffic 24 hours
- Vehicle traffic 72 hours
Note: All calculations based upon 68-77°F (20-25°C).
Lower temperatures and relative humidity will extend dry times.

**PACKAGING**
StarSeal 1315 Concrete Stain is available in 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 CS110 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 product obtain a copy of the SDS from your distributor or available at vexcon.com.

**CONTACT US @**
Additional product information, technical assistance and customer service is 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

**SPECIAL NOTES**
- To assist in application note, 200 sq.ft./gallon wet film is approximately equal to the thickness of a sheet of paper.
- Will tend to show rubber burns or tire marks
- Not gasoline resistant, use Vexcon’s High Performance Coatings products
- Mix well with a jiffy type mixer before each use
- Do not apply more material per sq. ft. than specified
- For horizontal surface only. For vertical, use StarSeal Vertical Concrete Stain
- Application of more than two coats is not recommended
- Over application may lead to surface discoloration and improper sealer performance
- Prior to using this product, it is recommended to review Vexcon’s Acrylic Sealer Application Guide for Concrete, Technical Note TN191, available at vexcon.com.
- 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
- Same lot numbers should be used throughout the project. If lot numbers differ, box-mix prior to use. If two different lots are used, apply a final thin coat to the entire area.
- Shelf Life: If properly stored in its original sealed container one (1) year from date of manufacture. Rotate your stock
- Storage/ Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Cure should be taken to keep dirt, water and contaminants away from the opening of containers.
- Delivery: Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- For use by experienced contractors.
- 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.
- Warranty: All products are sold subject to Vexcon’s published materials Limited Warranty and Terms and Conditions of Sale are available at vexcon.com.

**SPECIFICATIONS/COMPLIANCE**
VOC - 250grams/liter or 2.09#/gal.
- Meets:
  - US EPA AIM – Water proofing Concrete/Masonry Sealer & Concrete Curing and Sealing Compounds
  - OTC-Waterproofing Concrete/Masonry Sealers & Concrete Curing Compound
  - LADCO/MRPO – Waterproofing Concrete/Masonry Sealer & Concrete Curing Compound
  - CEPA/EC – Waterproofing Concrete/Masonry Sealer & Concrete Curing Compound
  - CARB - Waterproofing Membrane & Concrete Curing Compound
  - SCAQMD - Rule 1113 - Concrete Curing Compound for roads & bridges only (not for use on curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas)
  - LEED NC category/points: For detailed information visit vexcon.com/green.
  - ASTM C 309, Type II, Class A&B
  - ASTM C 1315 Type II, Class B
  - AASHTO M –148
  - Federal specification TT-C-800-A (GSA-FSS) Type II
  - Meets ADA and ASTM D 2047 non-slip
  - USDA approved
  - CSI: [03 35 00], [03 39 00], [09 93 00]