



VEXCON
CHEMICALS, INC.

Protecting and improving concrete since 1974

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STARSEAL[®] 1315 CONCRETE STAIN

ASTM C-1315 TYPE II, CLASS B

WATER BASE COLORED CURING AND SEALING COMPOUND

VOC content: 250grams/liter or 2.09#/gal.

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.

BENEFITS

- Available in 15 standard and custom colors. See Vexcon Color Systems Chart
- Provides for complete development of concrete's wear resistance and strength properties
- Low odor
- 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
- Corrects variations in colored concrete
- Economical decorative coating
- Decorative coating for stamped and concrete floors
- Revitalizes old, stained or uncolored concrete
- Apply to damp surfaces without whitening or loss of adhesion
- Vexcon breathable technology

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 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 (heel) 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 **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.

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 epoxy's, sealers and curing compounds use **StarSeal EF Stripper**.
- The concrete should be cleaned with **StarSeal EF Super 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.

SECOND COAT

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

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

StarSeal 1315 Concrete Stain can be applied over Certi-Vex AC or StarSeal Clear cure & seals that have previously been applied per manufacturer's instructions and are clean and well adhered. The appearance after application will be paint-like rather than stain. The existing clear sealer must be thoroughly cleaned and lightly sanded to reduce surface crawling prior to application of the stain.

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.

PACKAGING

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

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 **Powercoat Epoxy** products
- Mix well before each use
- Do not apply more material per sq. ft. than specified
- Keep from freezing
- 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
- 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

SPECIFICATIONS/COMPLIANCE

VOC - 250grams/liter or 2.09#/gal.

- Meets:
 - USEPA AIM-Concrete Curing and Sealing Compounds
 - OTC-Waterproofing Concrete/Masonry Sealers
 - CARB-Waterproofing Sealers, Concrete/Masonry
- LEED NC category/points: For detailed information visit vexcon.com/green.
 - EQ 4.2 – 1 point
 - MR 2.1/2.2 – 1 point
 - MR 5.1/5.2 – 1 point
- 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 reference: 03 39 00

Test reports and certifications are available upon request.

PHYSICAL PROPERTIES

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|-------------------|--------------------|
| • 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.

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 MSDS #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 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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