



VEXCON
CHEMICALS, INC.

Protecting and improving concrete since 1974

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STARSEAL[®] VERTICAL CONCRETE STAIN

VERTICAL COLORED CURING AND SEALING COMPOUND

VOC Content: 250grams/liter or 2.09#/GAL.

DESCRIPTION

STARSEAL[®] VERTICAL CONCRETE STAIN is a ready to use water based emulsion non-fading colored curing and sealing compound that quickly forms a decorative, hard, dustproof, water repellent, chemical resistant protective film on new and existing vertical concrete surfaces. This film hardens to a wear resistant sealer that enhances and revitalizes the appearance of new or existing vertical architectural concrete. Provides protection from moisture, deicing salts, staining and other harmful environmental elements. StarSeal Vertical Concrete Stain features Vexcon's breathable technology which allows moisture vapor to pass through rather than becoming trapped, preventing whitening, peeling and flaking. It can also be applied immediately after proper preparation to new pavers, concrete and masonry surfaces. Recommended for use on vertical walls and architectural sections. StarSeal Vertical Concrete Stain is manufactured from specially modified emulsion of vinyl toluene acrylate copolymers and contains no extenders or modifiers.

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 costs
- Excellent protection against staining, attack by alkali, oil, cleaners, harmful weather pollutants and common industrial chemicals
- Prevents efflorescence, dusting and spalling
- Safe to use
- Easy to apply
- Resistant to yellowing and color fading
- Recoatable
- Revitalizes old, stained or uncolored concrete
- Apply to damp surfaces without loss of adhesion
- Corrects color variations

SURFACE PREPARATION

New surfaces should be clean of all foreign materials such as oil, grease, asphalt, mud and powdery substances.

Remove efflorescence using **Certi-Vex Concrete Etch & Efflorescence Remover**. On old or existing masonry or concrete surface where there is loose scaly residue, sandblasting or wire brushing may be necessary. Small cracks, voids and blemishes may be filled by troweling **Certi-Vex[®] Patch RTU** with a large flat bladed spatula. Large holes and damaged areas should be repaired by grouting or trowel filling with **Certi-Vex[®] Patch**.

APPLICATION

- Product is supplied at the proper consistency for application and dilution will reduce efficiency.
- Thoroughly mechanically mix before applying.
- Apply by low-pressure high solids commercial grade solvent resistant sprayer. The sprayer must be clean and dry. 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 1/4" roller.
- If applying by roller, do not over-work material. Do not back roll or allow the working area to dry, coat in one direction only.
- When roller applying, roller should be dampened with water prior to use. Keep roller wet with material. Do not allow roller to dry.
- When spray applied, particular care must be taken with spray overlap area. Proper technique for spraying calls for a pattern which prevents run down of material.
- The sealer can be applied to damp or new surfaces, as long as there are no slick water surface spots visible.
- 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.
- Apply first coat at a rate of 250-300 sq.ft./gal (6.2-7.5 m²/L). A second coat is recommended for long term durability and to even out color. See Second Coat section.

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
- For vertical application only – Use **StarSeal®1315 Concrete Stain** for horizontal surfaces
- Will cause bleeding of bituminous surfaces
- Mix well before each use
- Do not apply more material per sq.foot than specified
- Keep from freezing
- 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.
- Protect areas from over-spray
- Do not apply if rainfall is eminent or on frosted or frozen surfaces
- Do not apply on windy days
- 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
- Federal specification TT-C-800-A (GSA-FSS) Type II.
- USDA approved
- CSI reference: 03 39 00

Test reports and certifications are available upon request.

SECOND COAT

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

MAINTENANCE

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

PHYSICAL PROPERTIES

- Color 15 standard colors
- Dry - tack free 45 minutes
- Solids 25% minimum

PACKAGING

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

TOPCOATS AND ADHESIVES

StarSeal Vertical Concrete Stain 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 Vexcon products are typically topcoated without incident, however, it is advisable to check with manufacturer of topcoat for any precautionary and compatibility information.

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 #CS111 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 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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