

## STARSEAL<sup>®</sup> PS ULTRA STAIN

WATER BASED • UV STABLE • INTERIOR/EXTERIOR

### DESCRIPTION

**STARSEAL PS ULTRA STAIN** will penetrate and color any interior or exterior new or old concrete surface prior to being ground and polished, densified or sealed. The product is ideal for high UV exposed environments. When properly installed StarSeal PS Ultra Stain deeply penetrates the surface producing a permanent and vibrant colored floor.

Non-flammable, low odor and UV stable, StarSeal PS Ultra Stain is manufactured using the most efficient milling equipment to reduce the pigment particle to the lowest obtainable micro size making the product easy to apply and more efficient at penetrating into the pores of the concrete yielding a more uniform colored floor.

StarSeal PS Ultra Stain is not designed to be a stand alone floor finish but part of the StarSeal PS floor system. For more information about StarSeal PS floor systems see product data sheet CT095 or go to [vexcon.com](http://vexcon.com). Applied within 14 days on fresh concrete, and within 12 hours on existing concrete a densified or polished StarSeal PS floor will achieve resistance to a wide variety of chemicals, rubber marks, oils, gasoline, and food stains (such as vinegar, lemon juice, milk, and citric acids) without the need for a topical coating.

### BENEFITS

- Non-fading and UV resistant color
- Non-red label
- Interior or exterior use
- Ideal for high UV exposed environments
- Performance and color warranty
- Deep penetrating color permanently locked into the surface
- Easy to apply
- Breathable
- Quick drying
- Ready to use
- Low odor
- 10 standard and custom colors
- Apply to fresh or existing concrete
- Diamond polish for a high gloss look without loss of color
- Alkali Resistant

### PRIMARY APPLICATION AREAS

Any interior or exterior area that requires a decorative, low maintenance, stain resistant floor such as restaurants, shopping malls, hospitality, retail, kitchens, food courts, schools, pool decks, stadiums, grocery stores and food handling areas.

### SURFACE PREPARATION

Note: Protect all areas not to be colored from overspray & spills.

Note: StarSeal PS Ultra Stain can be applied to fresh concrete older than 14 days or existing concrete.

- Clean the concrete making sure that all oils, curing compounds, coatings, and other pore plugging or film forming products are removed. Depending on the type of stain, coating and thickness, use Vexcon's **StarSeal EF Degreaser and Cleaner** or **StarSeal EF Stripper**. For removal of laitance and residual salts that may have occurred during the curing process, use Vexcon's **StarSeal FC Floor Cleaner**. Mechanical preparation is also an acceptable surface preparation method.

**Note:** If the concrete is to be polished, grind the concrete to the desired aggregate exposure and profile. For more information refer to StarSeal PS Ultra Stain Polish Instructions TN102A.

- Test surface absorbency with a light water spray to a representative area. The surface should wet out uniformly. If surface does not wet out, additional cleaning and surface etching maybe required. Repeat as necessary.
- When the surface is clean, dry, and water absorbent, the concrete is ready for installation.
- Protect surface from all construction activities.

### TESTING

Prior to general application, using the same methods and personnel to be used on the project, representative jobsite test sections must be produced for each concrete surface to confirm suitability and desired results. Sections should be approved prior to beginning general application.

### EQUIPMENT

StarSeal PS Ultra Stain can be applied by sprayer, brush or roller. Sprayer should be clean, dry and low pressure pump-up type. For roller applications use Vexcon's **EvenFlow** applicator or a microfiber pad. Equipment should be thoroughly cleaned after each color application.

### COVERAGE /ESTIMATING

Depending on concrete porosity and desired color tone.

**First Coat:** 500-700 sq.ft./gal, (2.3-3.2 wet film thickness).

**Second Coat:** 800-1000 sq.ft./gal, (1.60-2.0 wet film thickness).

## **INSTALLATION: COLOR**

- Mix well before each use.
- Apply uniformly in a consistent, overlapping circular motion. The Stain should penetrate into the concrete as it is applied.
- Do not over apply and minimize dripping onto the surface. Puddles and drops should be immediately spread out and adjust amount of material applying.
- Reapply as needed to desired results.
- If walking on previously Stained surface is required wear spiked shoes or shoe covers.
- Let floor dry.
- Use a floor scrubbing machine equipped with a dry white or hogs hair pad or medium stiffness bristle brush to remove any excess Stain residue. Perform a white rag test to ensure that all residue is removed.
- Once the concrete is treated, foot traffic should be avoided until all installation procedures are completed.

## **INSTALLATION: STARSEAL PS COLOR FSR SYSTEM**

For densifying or polishing installation instructions refer to StarSeal PS Application Instructions TN101A.

## **INSTALLATION: COATING/SEALING**

StarSeal PS Ultra Stain can be sealed with a number of high performing Vexcon coatings in addition to the StarSeal PS System. Contact your Vexcon sales representative for product recommendations or visit [vexcon.com](http://vexcon.com) for more information.

## **MAINTENANCE**

Spills should be removed promptly and cleaned with StarSeal EF Degreaser and Cleaner or a high quality commercial detergent. Floors should be cleaned as needed. For more information on maintaining densified or polished floors, refer to StarSeal PS Cleaning Maintenance Instructions TN215.

## **PERFORMANCE DATA**

- StarSeal PS Ultra Stain densified or polished concrete is performance validated with the following standards:
- LEED NC category/points. For more information visit [vexcon.com/green](http://vexcon.com/green).
- Abrasion Taber resistance test
- Permeability CRD C-48
- Hardening ASTM C-42/ASTM C-805
- Weathering ASTM G-23
- Bonding ASTM D-3559
- Case Consulting Laboratories: Coefficient of Friction Determinations ASTM 2047
  - StarSeal PS Clear – average - 0.54
  - StarSeal PS Finish Coat Ultra – average - 0.63
  - StarSeal PS Ultra Guard SPE – average - 0.70

## **CHEMICAL RESISTANCE**

StarSeal PS Ultra Stain densified or polished concrete using the StarSeal PS system has excellent stain resistance to many types of chemicals. For more information refer to StarSeal PS Chemical Resistance Chart TN184.

## **SPECIAL NOTES/LIMITATIONS**

- Keep from freezing.
- Not for use at temperatures below 40° F (4° C).
- Do not dilute.
- Do not apply to metal, glass or painted surfaces.
- For use by experienced contractors.
- Not recommended for epoxy terrazzo.
- Cannot hide surface blemishes or cover construction errors.
- Shelf Life: If properly stored in its original sealed container, one year. Rotate your stock.
- Not recommended for stamped concrete.
- Storage/ Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care 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.
- 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.

## **PHYSICAL PROPERTIES**

- Flash Point 108°F (42°C)
- Viscosity <10 secs. # 4 ford cup
- Appearance Translucent (when dry, depending on porosity)
- Color 10 Standard
- Dry time 30-45 mins (depending on temperature and porosity)
- VOC <250 gr/liter or <2.08 #/gal

## **PACKAGING**

StarSeal PS Ultra Stain is available in 3 gallons and 1 gallon containers. Contact Vexcon to discuss your customized packaging requirements.

## **HEALTH AND SAFETY**

Vexcon MSDS CT105 is an integral part of the safety and application of our product. Before using this Vexcon product, obtain a copy of the MSDS from your distributor or visit [vexcon.com](http://vexcon.com).

## **WARRANTY**

Properly installed, densified or polished StarSeal PS floors are covered by our extensive performance warranties. Warranties apply to floors that exclusively use StarSeal PS materials on the floor under warranty consideration. Complete warranty information is available at [vexcon.com](http://vexcon.com).

## **CONTACT US @**

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly.

- [vexcon.com](http://vexcon.com)
- [techservice@vexcon.com](mailto:techservice@vexcon.com)
- [customerservice@vexcon.com](mailto:customerservice@vexcon.com)
- [sales@vexcon.com](mailto:sales@vexcon.com)
- Voice: 888.839.2661
- Fax: 215.332.9997

### **WARRANTY**

LIMITED WARRANTY: Vexcon warrants for a period of one (1) year from the date of manufacture that the goods supplied hereunder shall be of its standard quality and free of defects, and conforms to (a) Vexcon's published specifications in force on the date of acceptance by Vexcon of the order and (b) the sample which has been made available for testing by buyer prior to sale. Any claim under this warranty must be made in writing to Vexcon Chemicals within sixty (60) days after such non-conformity is first discovered. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon at its option 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 MERCHANTABILITY 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 OF NEGLIGENCE, GROSS NEGLIGENCE, MISUSE, STORAGE DAMAGE, MISAPPLICATION, ACCIDENT, STRICT LIABILITY OR ANY OTHER TORT. 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.

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