



VEXCON
CHEMICALS, INC.

Protecting and improving concrete since 1974

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STARSEAL[®] PS FINISH COAT - AIM

NCHRP-244 • Economical

VOC Content 183 gr./liter or 1.53 #/gal. –Waterproofing concrete sealer

DESCRIPTION

STARSEAL PS FINISH COAT AIM part of the Vexcon StarSeal PS System, a clear ready to use penetrating sealer based on an alkyl-alkoxy silane and silane polymers. Starseal Finish Coat AIM is formulated for low-pressure spray application to concrete flatwork that has been treated with **STARSEAL PS CLEAR**. Starseal Finish Coat AIM stops intrusion of water, salts, deicer chemicals food acids and oil which result in costly damage to concrete floors. Starseal Finish Coat AIM contains silane solids suspended in a highly mobile solvent carrier. The material's small molecular structure allows for maximum penetration into the concrete subsurface. The treated surface reduces chloride ion and food acids migration through cementitious materials. Treatment of reinforced concrete reduces surface erosion and corrosion of rebar caused by attack of water and water borne salts and alkalis. Concrete treated with Starseal Finish Coat AIM has a totally natural appearance. When properly applied the treatment does not produce a surface build up, darkening or other effect on the natural color, stain or texture of the surface.

BENEFITS

- Meets EPA & AIM VOC regulations
- Improves chemical and food acid resistance to floors treated with one of the StarSeal PS Systems.
- An effective chloride screen.
- Deep penetration-no color change to the natural or stained appearance.
- Contains long alkyl groups especially suitable for alkaline concrete surfaces.
- Prolongs the surface life and prevents damage from within by maintaining vapor permeability of concrete.
- Can be applied to concrete surfaces, which are slightly damp.
- Quick formation of surface repellency and chemical resistance.
- High flash solvent carrier makes the material pleasant to work with and prevents loss of active ingredients due to evaporation.
- Slip Resistant
- VOC Compliant

SURFACE PREPARATION

All patching and joint sealants, and grout should be installed prior to application of StarSeal PS Finish Coat AIM. Surface should be cleaned free of dust, surface dirt and contaminants. For cementitious substrates use **Certi-Vex[®] Concrete Stripper** to remove old sealers, epoxies, urethanes, adhesives, curing compound and floor waxes. Use one of **Vexcon's concrete cleaners and stain removal products** to properly clean the surface prior to application. 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. Application to still damp surfaces is acceptable however free standing water must be removed.

APPLICATION

Starseal Finish Coat AIM should not be diluted or altered. Apply with low-pressure (20-PSI) airless professional grade spray equipment. Sprayer should be clean fitted with solvent resistant hoses and gaskets. If using brushes or rollers care should be taken to ensure that enough solution is applied. Apply sufficient material to thoroughly saturate the surface making sure to brush out excess material that does not penetrate. See Coverage Section. Starseal Finish Coat AIM should be applied in a single saturating application with sufficient material applied so that the surface remains wet for a few minutes before penetration into the concrete. Surface residues, pools and puddles should be broomed out thoroughly until they completely penetrate into the surface. Additional light coats may be required until the material no longer penetrates into the surface. **IMPORTANT:** After thorough drying the floor must be burnished with a high speed burnisher equipped with a black stripping pad to remove excess polymer from the surface. If not burnished the excess polymer will black mark.

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. Paste Wax may be applied and then a liquid floor wax can be applied if desired.

PERFORMANCE TEST DATA/COMPLIANCE

StarSeal Finish Coat AIM has been tested according to the most current test procedures in the industry. Testing includes water absorption/repellency ratings, penetration and salt spray resistance. Results are listed below and independent test reports are available on request.

- Chloride screen test using NCHRP 244 series IV (1 application at 125 sq.ft. /gal.) min 90%.
- Reduces water absorption (ASTM C-67 and ASTM C-140) by greater than 84%.
- Scale rating-ASTM C-672-84 100 freeze thaw cycles-0 (no scaling).
- Penetration (1 application) 7mm-13mm.
- Case Consulting Laboratories: Coefficient of Friction Determinations ASTM 2047:
StarSeal PS – average – 0.54
StarSeal PS Finish Coat – average – 0.63

SPECIAL NOTES

- The product should be stored in sealed containers and kept away from extreme heat.
- Can apply to 20⁰F - Request Vexcon's Cold Weather Application Guide.
- Protect glass from over spray.
- If properly stored in its original sealed container, three years from date of manufacture. Rotate your stock.
- For use by professional applicators only.

PACKAGING

StarSeal Finish Coat AIM is available in 55-gallon drums and 5-gallon pails. Contact Vexcon to discuss your customized packaging requirements.

COVERAGE RATES

Porosity and texture of the surface will affect the amount of material necessary for effective treatment. The following is a guide for estimating material requirements for concrete.

Always test on the actual surface to get precise consumption rates.

| | |
|--------------------|---|
| Rough finish | 200-300sq.ft/gal.(5.0-7.5m ² /L) |
| Fine broom finish | 300-400sq.ft/gal.(7.5-10m ² /L) |
| Hard trowel finish | 400-600sq.ft/gal.(5.21-10.4m ² /L) |

VITAL STATISTICS

- Flash Point (TCC): 1.4° F (-17 °C) TCC
- Boiling Point (706 mmHg): 133° F (56°C)
- Autoignition Temp: 869
- Extinguishing Media: Foam, dry chemical, CO2, Water Fog.

HEALTH AND SAFETY

CAUTION FLAMMABLE LIQUID

- Resin solution, flammable liquid, red label
- Use of respirators is mandatory when using this product in confined areas.
- Use only with adequate ventilation.
- If swallowed, do not induce vomiting.
- Use of gloves, goggles and other protective clothing is advised when using this product.

Vexcon MSDS # CT120 AIM 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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