



## STARSEAL<sup>®</sup> EF WEATHER SEAL PLUS

### INSTRUCTIONS FOR USE

#### PRE-INSTALLATION NOTES

- A test application is necessary on each surface to be treated to ensure compatibility and desired water repellency. Test areas are also useful in determining final application rate and procedures.
- If the material in the test area does not fully penetrate due to coatings or inadequately cleaned surface, use one of **Vexcon's cleaners and stain removal products** to properly clean the surface prior to application.
- If a tacky residue remains after 24 hrs, the application rate must be modified. Material which remains tacky on the surface can usually be removed by washing with water or a vinegar solution.
- Tests should be applied using the same equipment and techniques planned for job application.
- Test areas should be available for inspection by the project engineer.
- Adjoining glass, metal and painted surfaces should be protected from over spray and splash. Inadvertent splashes should be removed using **Certi-Vex<sup>®</sup> Equipment Cleaner** before the solution has dried on the surface.

#### SURFACE PREPARATION

- All caulking, patching and joint sealants should be installed and fully cured prior to application. Concrete should be properly cured, see Curing Recommendations section.
- All surfaces must be cleaned free of dust, dirt, surface materials, previous coatings and contaminants.
- New concrete normally does not require etching. However, slick trowel finished concrete that has become heavily contaminated with surface dirt, tire marks, oil, etc., during construction may require thorough cleaning and a mild etch using **StarSeal<sup>®</sup> EF Safe Etch** for best performance.
- Older concrete surfaces should be power washed with high-pressure water and **StarSeal Brick & Masonry Cleaner** to assure removal of surface dirt, oil and contaminants that may have built up over the years and use **StarSeal EF Stripper** to remove old cure and seals, resin cures, acrylics, adhesives, floor waxes and many urethanes and epoxies.
- To determine that the concrete is penetrable perform a water absorbency test by applying water to a representative portion of the prepared surface. A properly prepared surface when dry will immediately absorb clean water without any surface beading effects.
- If required use StarSeal EF Safe Etch to improve sealer penetration.
- Surfaces to be treated may be damp but should be absorbent to assure good penetration.
- Application to still damp surfaces is acceptable however free standing water must be removed.

#### CURING RECOMMENDATIONS

- Concrete can be cured with **StarSeal EF Cure**, an emulsion resin cure, which will dissipate. Allow to dissipate or remove with Certi-Vex Concrete Stripper.

- Water cure-burlap

NOTE: Sodium Silicates should not be used to cure concrete.

#### APPLICATION

- StarSeal EF Weather Seal Plus should not be diluted or altered, see Coverage Rates.
- Apply with low-pressure (20-PSI) airless industrial spray equipment. Sprayer should be fitted with solvent resistant hoses and gaskets.
- If using brushes or rollers care should be taken to ensure that enough solution is applied.
- Treated surfaces should be protected from rain and foot traffic for 4-6 hours following application.
- Protect from vehicular traffic for 24 hours.

#### HORIZONTAL SURFACES:

- StarSeal EF Weather Seal Plus should be applied in a single saturating application with sufficient material applied so the surface remains wet for a few minutes before penetration into the surface.
- Surface residues, pools and puddles should be broomed or brushed out until they completely penetrate into the surface.

#### VERTICAL SURFACES:

- StarSeal EF Weather Seal Plus should be applied and absorbed on the substrate to the specified coverage rate.
- In the case of extremely dense, mirror finish architectural concrete and similar surfaces, it may be necessary to restrict the amount of material by first applying a light mist coat by the procedure listed below in order to prevent surface darkening.
- Allow the mist coat to penetrate the masonry surface (approximately 3-5 minutes) and apply in the same saturation manner.
- Apply StarSeal EF Weather Seal Plus in a flooding application, from the bottom up with sufficient material applied to provide a 6" to 8" run down below the contact point of the new spray pattern with the masonry surface.

#### PHYSICAL PROPERTIES

- Color wet: Milky white
- Color dry: Clear
- Dry time: 4-5 hours
- Solvent: Water/Emulsion
- Total Solids and active ingredients by wt. 40%

Dry times are based upon 68-77<sup>0</sup>F (20-25<sup>0</sup>C). Lower temperatures and the relative humidity will extend dry times.

#### VITAL STATISTICS

- Flash Point: >212<sup>0</sup>F Tag closed cup
- Boiling Point: 210<sup>0</sup>F, 760 mm Hg
- Autoignition Temp: ND
- Extinguishing Media: Foams, Dry Chemical, CO2, Water Fog, Spray.

## SPECIAL NOTES

- The product should be stored in sealed containers
- Do not apply water repellent treatment when surface temperatures are below 40°F
- Do not apply water repellent treatment when surface temperatures are above 85°F
- Do not apply water repellent treatment on windy days
- Keep from freezing
- Mix well before each use
- Do not apply if rain is expected within 8 hours after application
- Do not apply earlier than 24 hours after rain
- Do not apply to frozen surfaces
- If properly stored in its original sealed container, six months. Rotate your stock
- For use by experienced applicators only

## COVERAGE RATES/ESTIMATING

Porosity and texture of the surface will affect the amount of material necessary for effective treatment. The following is a guide for estimating total material requirements. Always test on the actual surface to get precise consumption rates.

- **Concrete/Horizontal:**
  - Broom finish 125-140 sq.ft./gal. ( $3.1-3.5\text{m}^2/\text{L}$ )
  - Smooth Hard Trowled 250 sq.ft./gal. ( $6.25\text{m}^2/\text{L}$ )
  - Older concrete (Porous) 95-140 sq.ft./gal. ( $2.4-3.5\text{m}^2/\text{L}$ )
  - Pavers 125-140 sq.ft./gal. ( $3.1-3.5\text{m}^2/\text{L}$ )
  - Tiles 250 sq.ft./gal. ( $6.25\text{m}^2/\text{L}$ )
- **Concrete/Vertical:**
  - CIP or Precast 150-200 sq.ft./gal ( $3.5-5\text{m}^2/\text{L}$ )
  - Stucco 95-140 sq.ft./gal ( $2.4-3.5\text{m}^2/\text{L}$ )
- **Architectural Concrete block:**
  - Smooth-faced 95-140 sq.ft./gal ( $2.4-3.5\text{m}^2/\text{L}$ )
  - Split-faced 50-100 sq.ft./gal ( $1.25-2.5\text{m}^2/\text{L}$ )
  - Ground-faced 200-250 sq.ft./gal ( $5-6.25\text{m}^2/\text{L}$ )
  - Ribbed 50-100 sq.ft./gal ( $1.25-2.5\text{m}^2/\text{L}$ )

## 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 #EFPS 205 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 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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