



## STARSEAL® EF WEATHER SEAL PLUS

BEST PROTECTION • ECO-FRIENDLY • LOW ODOR • WATER REPELLEN

### DESCRIPTION

StarSeal EF Weather Seal Plus is a 100% silane based fully penetrating protective water repellent treatment. StarSeal EF Weather Seal Plus will penetrate deeper and impart a greater amount of reactive material into the surface providing greater protection than comparable silicone based products.

StarSeal EF Weather Seal Plus provides the best long term protection against salt corrosion, deicing chemicals, mildew, water, wind driven rain, airborne contaminants, and surface spalling from freeze/thaw cycles and other severe weather conditions.

### BENEFITS

- Extends the life of concrete and masonry surfaces
- Reduces corrosion of rebar and surface erosion in reinforced Concrete
- An effective chloride screen
- Prolongs the surface life and prevents damage from within by maintaining vapor permeability of concrete
- Superior water repellency
- Can be applied to concrete surfaces that are slightly damp
- Suitable for alkaline concrete surfaces
- Does not alter natural surface texture or appearance
- Keeps substrate cleaner

### STARSEAL EF

StarSeal EF products are high performance building materials that are dedicated to reducing their environmental foot print by improving the environmental performance of buildings, the air quality of its inhabitants and reducing the effects of volatile organic compounds (VOC's) on the environment.

### ECO-FRIENDLY ATTRIBUTES

- Low odor
- Low VOC content
- LEED points
- Safe to use
- Safe to store
- Packaged in recyclable containers

### LEED INFORMATION

- LEED NC category/points: For detailed information visit [vexcon.com/green](http://vexcon.com/green).
  - EQ 4.1 – 1 point
  - MR 2.1/2.2 – 1 point
  - MR 5.1/5.2 – 1 point

### INSTRUCTIONS FOR USE

Before using this product, refer to product use information at EFPS 205 (a) for detailed product application instructions. Contact Vexcon technical service for any product application questions.

### RECOMMENDED FOR

Engineered for infrastructure such as bridges and highways, ramps along with parking structures, water treatment facilities, stadiums and pre-cast concrete. Along with many other horizontal and vertical substrates including concrete, stone, brick, block and other masonry and surfaces.

- Pre-cast concrete
- Concrete block and CMU
- Cast-in-place concrete
- Tunnel walls
- Brick walls
- Bridge decks
- Parking structures
- Concrete ramps
- Median barriers
- Pavers
- Athletic stadiums
- Sound walls

### SPECIFICATIONS/COMPLIANCE

StarSeal Ef Weather Seal Plus has been tested according to the most current test procedures in the industry. Testing includes water absorption/repellency ratings, penetration, and salt spray resistance. Test reports are available.

- VOC – <100 grams/liter or <0.83#/gallon  
Meets:
  - USEPA AIM-Waterproofing Sealers and Treatments
  - OTC - Waterproofing Concrete/Masonry Sealers
  - LADCO - Waterproofing Concrete/Masonry Sealers
  - Canada - Waterproofing Concrete/Masonry Sealers
  - CARB - Waterproofing Concrete/masonry Sealers
  - SCAQMD - Rule #1113 - Waterproofing Conc/Msry Sealers
- Meets NCHRP 244 Series II & IV
- NCHRP 244 Series II & IV  
Sor Testing Laboratories report #10-1988R
  - Water Loss Reduction, coated samples, 14 days at 50% RH: 86.7%
  - Water Loss Reduction, coated samples, 21 days in 15% NaCl: 93.2%, UV 92.6%
  - Reduction of Chloride Penetration into concrete:
    - 0-1":- Coated 95.3%, - UV 94.6%
    - 0-2":- Coated 93.8%, - UV 92.6%
- NCHRP 244 Series II & IV; Sor Testing report #10-1582
  - Reduces water absorption (ASTM C67 and ASTM C642) by greater than 90%.
- ASTM C672 Scale rating - 100 freeze thaw cycles-0 (no scaling). Sor Testing report #10-1842AA
- Penetration (1 application) 0.150 -0.26", depending on substrates. Sor Testing report #10-1881
- ASTM E96 - Water Vapor Permeability 95%. Sor Testing report #10-1804
- ASTM D2047 - Coefficient of friction 0.84 average – minimum required 0.50. Case Laboratories report #6335
- Efficiency test - PowerSeal yields 210% more silane than alcohol based products. See Technical Note #TN100 for more information.
- Active Silane greater than 40%. CeWay Chemical Services report #10056
- CSI reference: 07 19 16

### **SHORT SPECIFICATION**

07 19 16: Low VOC water repellent. VOC content less than 89 grams/liter. Meets or exceeds NCHRP 244 Series IV test, reducing water and salt penetration by minimum 90%. Ten year warranty. Manufactured by Vexcon Chemicals.

### **PACKAGING**

Available in 55-gallon drums, 5-gallon pails and 1 gallon containers. Our packaging is recyclable type 2 high density polyethylenes (HDPE).

### **EXCLUSIVE PROTECTIVE COLLOID EMULSION TECHNOLOGY**

StarSeal EF water repellents are produced with Vexcon's proprietary protective colloid emulsion technology. This technology prevents premature hydrolysis of the silane with the water used as a carrier in the emulsion. Premature hydrolysis is a process that reduces the effectiveness of water repellents.

### **CONTACT US @**

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

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