



**1. Product Name**

StarSeal EF Release, Bio-Release

**2. Manufacturer**

Vexcon Chemicals  
7240 State road  
Philadelphia, PA 19135  
(215) 332-7709  
www.vexcon.com

**3. Product Description**

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 inhabitant's and reducing the effects of volatile organic compounds (VOC's) on the environment.

StarSeal EF products can contribute points towards Leadership in Energy and Environmental Design (LEED) Green Building Rating System credits for certified projects in environmentally responsible new construction and building rehabilitation projects. Eco-Friendly attributes.

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

StarSeal EF form release treatments are zero VOC, non staining and eco friendly. StarSeal EF form treatments provide superior releasing characteristics yielding a smooth uniform and dust free surface.

**BASIC USE**

Recommended for architectural, pre-cast and general forming. Designed for use on aluminum, metal, wood forms and is ideal product for plastic form liners.

StarSeal EF form release treatments do not contain any petroleum oils or waxes, preventing staining of the concrete surface and because no surface preparation is required subsequent applications of coatings or other treatments applied to the formed surface are completely compatible.

**BENEFITS**

- Made from bio-degradable, rapidly renewable materials
- Zero VOC
- Odorless
- Meets all clean air VOC standards throughout the US
- Yields a smooth and uniform surface
- Non-staining
- Increases form useful life
- Decrease labor and maintenance costs

**PACKAGING**

Available in 55-gallon drums, 5-gallon pails and 275 gallon totes. Our packaging is recyclable type 2 high density polyethylene (HDPE).

**YIELD**

500-1000 sq.ft./gal (12.5-25 m<sup>2</sup>/L) depending on porosity, texture and form material.

**SHELF LIFE**

If properly stored in its original sealed container, one year from date of manufacture.

**ACCESSORIES**

- Certi-Vex Concrete Remover
- Form release spray unit

**LIMITATIONS**

- Do not use as a bond breaker for concrete on concrete.
- Manufacturers of coatings or treatments should be consulted for special application requirements of their product.
- Effective for up to three weeks before concrete is poured.
- StarSeal EF form release treatments must be allowed to dry on the forms prior to pouring concrete.
- Manufacturer's Qualifications: Specialize in manufacture of liquid form release treatments with a minimum of 10 years successful experience.
- Applicator shall have prior experience applying form release treatment.



**4. Technical Data**

**APPLICABLE STANDARDS**

- Corp of Engineers, Civil Works Construction Guide, CW-0301, section 2.1.2 and 3.1.3
- United State Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED)
- United States Environmental Protection Agency -EPA

**APPROVALS**

- VOC Content: 0 gr./liter per EPA method 24.  
Meets all clean air standards throughout the US:  
- USEPA AIM- Form Release Compound  
- OTC- Form Release Compound  
- CARB- Form Release Compound  
- SCAQMD- Bond Breaker
- Ohio EPA contact with potable water
- Bureau of Reclamation Standards
- Corp of Engineers, Civil Works Construction Guide, CW-0301, section 2.1.2 and 3.1.3
- United State Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED)  
- New Construction and Major Renovations 2.2v.
- United States Environmental Protection Agency -EPA  
- Method 24 - Determination of Volatile Matter Content of Surface Coatings

**PHYSICAL/CHEMICAL PROPERTIES**

- Color Water white emulsion
- Wt/gal 8.3
- Acid number/Release 0
- Acid number/Bio-Release 6

**ENVIRONMENTAL CONSIDERATIONS**

- Do not apply form release treatment when surface temperatures are below 40°F
- Do not apply when rain is predicted 24 hours or less then 1 day after surface has been wet.
- Mix well before each use
- Do not apply on windy days

**5. Installation**

**PREPARATORY WORK**

- Forms and other surfaces that are to be made bond free should be cleaned before applying StarSeal EF form release treatment.
- Remove previous buildup of concrete, rust, scale and dirt with Certi-Vex Concrete Remover and repair any holes or fractures from previous use before applying.
- StarSeal EF form release treatments are ready to use direct from its container, do not dilute.

**METHODS**

- Mix well before each use.
- Apply by, brush, roller, spray or dipping before pouring concrete. Keep off reinforcing steel and any other embedments, spray application must be done with care when forms and steel are already in place. An alternative is to coat forms just prior to erection of rebar steel.
- Coat uniformly - Leave no gaps.

**PRECAUTIONS**

- Refer to the Material Safety Data Sheet (MSDS) before using.

**BUILDING CODES**

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

**6. Availability & Cost**

**AVAILABILITY**

Vexcon products are available nationwide. Contact Vexcon Chemicals for a distributor in your area.

**COST**

Consult Vexcon Chemicals for detailed pricing information.

**7. Warranty**

Complete warranty terms and conditions are available from the manufacturer. For details, contact Vexcon Chemicals.



**8. Maintenance**

- It is recommended that forms be treated between each pour and before long periods of idleness or storage.

**9. Technical Service**

Technical assistance, including more detailed product information, product literature, MSDS, test results and project lists are available. Call 1-888 VEXCON-1, or visit [www.vexcon.com](http://www.vexcon.com)

**10. Filing Systems**

- Product data sheet, 3-part specification, MSDS, test reports and additional product information is available at [www.vexcon.com](http://www.vexcon.com) or by contacting Vexcon directly.
- Product code number: FR111, FR112

