



## STARSEAL® EF RELEASE

ECONOMICAL FORM TREATMENT • CHEMICALLY ACTIVE • ECO-FRIENDLY

### DESCRIPTION

**STARSEAL EF RELEASE** is an economical, non-staining, crystal clear water based form release agent which provides exceptional release properties while protecting environmentally sensitive areas and the workers who apply the product. Recommended for aluminum, metal, wood forms and is the product of choice for plastic form liners.

Since the product does not contain any oils or waxes, Starseal EF Release is non-staining to the concrete and can be top-coated without concern for compatibility. When properly applied the product forms a film on the surface that covers 100% of the exposed form area. 100% coverage is the Vexcon Forming Advantage by providing uniform release that avoids heavy build up and uncovered areas.

Starseal EF Release will not crater, bead, run or sag on vertical application. This reduction in heavy build up reduces form preparation between uses increasing the forms useful life and decreases labor and maintenance costs. The product also includes a special rust inhibitor to minimize rust formations on steel forms. No surface preparation is required for subsequent coatings or treatments of concrete formed with Starseal EF Release.

### BENEFITS

- Excellent release performance for aluminum, metal, plywood, plastic and fiberglass forms
- Environmentally friendly
- Will not stain or discolor concrete
- Quick drying
- Reduces surface air voids (bug holes)
- Will not deteriorate or damage surface
- Increases form useful life
- Decrease labor and maintenance costs
- Reduces concrete build up
- Ensures easy stripping of forms
- Reduces surface preparation and painting costs
- Effective for up to three weeks before concrete is poured
- Rain will not wash off dried product
- Minimizes rust formation

### RECOMMENDED FOR

- Architectural concrete
- Foundations
- Environmentally sensitive areas
- Tunnel, bridges and waste water treatment facilities
- Pre-cast, pre-stressed concrete
- Maritime construction
- Tidal zones
- General forming application

### 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
- Safe to use
- Safe to store
- Packaged in recyclable containers

### SPECIFICATIONS/COMPLIANCE

- VOC: 0 grams/liter
- Meets all clean air standards throughout the US:
  - USEPA AIM - Form Release Compound
  - OTC - Form Release Compound
  - LADCO - Form Release Compound
  - Canada - Form Release Compound
  - CARB - Form Release Compound
  - SCAQMD - Bond Breaker
- Meets or exceeds the requirements of the Corp of Engineers, Civil Works Construction Guide, CW-0301, section 2.1.2. and 3.1.3.
- Bureau of Reclamation Standards
- State Specifications for non-staining form release
- Ohio EPA contact with potable water
- CSI reference: 03 11 00 – Concrete Forming

### SHORT SPECIFICATION

03 11 16: Zero VOC Concrete Forming and Accessories.

Form release agent with rust inhibitor that will not bond with, stain, or adversely affect concrete surfaces, will not impair subsequent treatments of concrete surfaces. Environmentally safe, meeting local, state and federal regulations. Manufactured by Vexcon Chemicals.

### APPLICATION

- Forms and other surfaces that are to be made bond free should be cleaned before applying Starseal EF Release.
- Remove buildup of concrete, rust, scale and dirt with **Certi-Vex® Concrete Remover**, and repair any holes or fractures from previous uses before applying.
- Starseal EF Release is ready to use direct from its container, do not dilute.
- Apply by brush, roller, spray or dipping on forms immediately before pouring concrete. However, because Starseal EF Release or any other form release agent, must be kept off reinforcing steel and any other embedment's, spray application must be done with care when forms and steel are already in place. An alternative is to coat forms with Starseal EF Release just prior to erection of rebar steel.
- Coat Uniformly - Leave no gaps.
- Allow to dry

## **SPECIAL NOTES**

- Residual concrete dust can be wiped off with a rag or water washed to a clean surface.
- 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.
- Starseal EF Release can be effective for up to three weeks before concrete is poured.
- It is also recommended that forms be treated with Starseal EF Release between each pour and before long periods of idleness or storage.
- Do not apply form release treatment when surface temperatures are below 40°F.
- Do not apply when rain is predicted 24 hours or less than 1 day after surface has been wet.
- Starseal EF Release must be allowed to dry on the forms prior to pouring concrete.
- Mix well before each use.
- Keep from freezing.
- Do not apply on windy days.
- For use by experienced contractors.
- Shelf Life: If properly stored in its original sealed container, one year from date of manufacture. Rotate your stock.
- 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.

## **COVERAGE**

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

## **PACKAGING**

Starseal EF Release is available in 55-gallon drums and 5-gallon pails. Contact Vexcon directly to discuss your customized packaging requirements.

## **PHYSICAL PROPERTIES**

- |               |                            |
|---------------|----------------------------|
| • Color       | Water white clear solution |
| • Wt/gal      | 8.3                        |
| • Acid number | None                       |
| • Carrier     | Water                      |

## **VITAL STATISTICS**

- |                     |               |
|---------------------|---------------|
| • Flash Point       | None          |
| • Boiling Point     | 212°F (100°C) |
| • Autoignition Temp | None          |

## **HEALTH AND SAFETY**

- 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 FR111 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 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 or our distributors.

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## **WARRANTY**

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