

SECTION 03 10 00 Concrete Forming and Accessories

Specifier Note: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-part format. The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building codes. Coordinate this section with other specification sections and the drawings. Delete all “Specifier Notes” when editing this section.

Specifier Note: This section covers StarSeal EF [Release] [Bio-Release] zero VOC non staining eco friendly liquid form release treatments. StarSeal EF form treatments provide superior releasing characteristics yielding a smooth, uniform and dust free surface. Recommended for architectural, pre-cast and general forming. Designed for use on aluminum, metal, wood forms and is ideal product for plastic form liners.

Specifier Note: **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.

Specifier Note: This guide specification is provided as a start point for the design professional. Any modifications to the specification are the responsibility of the design professional. Contact Vexcon Chemicals with any questions regarding this product.

Specifier Note: Before editing this section, consult with Vexcon to obtain complete product information on the form release treatment required for the project.

PART 1 – GENERAL

1.1 SUMMARY

- A. This section specifies StarSeal EF form release treatment materials for new construction and major renovations

Specifier Note: Edit the list of related sections as required for the project. List other sections dealing with the work directly related to this section.

1.2 RELATED SECTIONS

- A. 031116-Architectual Cast-in Place Concrete Forming

1.3 REFERENCES

- A. Corp of Engineers, Civil Works Construction Guide, CW-0301, section 2.1.2 and 3.1.3
- B. United State Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED)
 - 1. New Construction and Major Renovations 2.2v.
- C. United States Environmental Protection Agency (EPA)
 - 2. Method 24 - Determination of Volatile Matter Content of Surface Coatings

1.4 SUBMITTALS

- A. Comply with section 013300 – Submittal Procedures
- B. Comply with section 013100 – Project Management and Coordination/LEED submittals
 - 1. Obtain written certification from manufacturer on manufacturer’s letterhead for all field applied materials indicating compliance with local, state, federal VOC guidelines.
 - a. The Volatile Organic Compound (VOC) content in grams/liter or lbs./gallon. per EPA method 24, compliance with South Coast Air Quality District (SCAQD) rule # 1113 dated June 2008, the environment label and the declaration requirements of ISO 14020 and ACT 15 of the Federal Trade Commission guide on use of environmental marketing claims.
 - 2. Provide documentation from manufacturer to validate compliance with LEED NC 2.2 MR 5.1/5.2 Regional Materials
 - 3. Provide documentation from manufacturer indicating contribution towards LEED NC 2.2 MR 2.1/2.2 Construction Waste Management.
- C. Manufactures product data sheet: Include manufacturer’s specifications, special notes and application instructions.
- D. Manufactures material safety data sheet
- E. Comply with section 017700 – Closeout Procedures

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Specialize in manufacture of liquid form release treatments with a minimum of 10 years successful experience.
- B. Applicator shall have prior experience applying form release treatment.
- C. Regulatory Requirements: Products shall comply with federal, state and local VOC regulations.
- D. Product shall contribute to LEED NC 2.2 points.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions. Keep containers sealed until ready for use.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.
- D. Do not use materials beyond manufacturer's shelf life limits

1.7 PROJECT CONDITIONS

A. Environmental Requirements

1. Do not apply form release treatment when surface temperatures are below 40°F
2. Do not apply when rain is predicted 24 hours or less then 1 day after surface has been wet.
3. Do not apply as a bond breaker
4. Mix well before each use
5. Keep from freezing
6. Do not apply on windy days

PART 2 – PRODUCTS

2.1 Acceptable Manufacturer

A. Vexcon Chemicals 7240 State Road Philadelphia PA 19135
Toll Free Technical Assistance 888.Vexcon1, fax 215.332.997, website www.vexcon.com
email sales@vexcon.com.

B. Substitutions: Not permitted

2.2 Acceptable Material

Specifier Note: Refer to Vexcon Chemicals product data sheet or contact Vexcon to determine the appropriate form release treatment to be specified. Edit this list to include only those products to be included in the work.

A. Product: StarSeal EF [Release] [Bio-Release]

B. Description: Zero VOC liquid form release treatment

C. Compliances:

1. USEPA method 24

a. VOC < [0 grams/liter or 0.0 #/gal] [0 grams/liter or 0.0#/gal]

2. Meets all state, federal and local VOC clean air regulations including South Coast Air Quality District (SCAQD) rule # 1113 dated June 2008

3. Ohio EPA contact with potable water

4. Corp of Engineers, Civil Works Construction Guide, CW-0301, section 2.1.2 and 3.1.3

PART 3 – EXECUTION

3.1 SURFACE PREPARATION

- A. Verify by examination that form surfaces are acceptable to receive specified material.
- B. Prepare surface in accordance with manufacturer's written instructions.

3.2 APPLICATION

- A. Apply form release treatment in accordance with manufacturer's written instructions.
- B. Apply form release treatment at a uniform rate in accordance with manufacturer's written instructions.

END OF SECTION