



**VEXCON**  
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974  
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SECTION [03 35 00] [09 61 00]  
[Concrete Finishing] [Flooring Treatment]

**Specifier note:** The purpose of this guide specification is to assist the Specifier in developing a project specification for the use of Vexcon Construction products. Edit guide specification in accordance with project requirements. Delete, modify, or add text as required. Coordinate with other sections for general requirements and related work. Obtain current copies of manufacturer's technical data sheet and other product literature before editing.

**PART 1 – GENERAL**

**1.01 SUMMARY**

- A. Section includes:
1. StarSeal PS Clear – Penetrating Liquid Floor Treatment: Clear, chemically reactive, waterborne solution of silicate material and proprietary components, odorless, that penetrates, hardens and densifies concrete surfaces.

**Specifier note:** Delete Sections not applicable.

- B. Related Sections:
1. Section 03 30 00 – Cast-in-Place Concrete

**1.02 SUBMITTALS**

- A. Comply with Section [01 33 00] [\_\_\_\_\_] ]
- B. Product Data: Submit manufacturer's product data sheet. Include generic description, surface preparation, and application instructions.
- C. MSD Sheet indicating VOC content and safety precautions.
- D. Warranty: Submit manufacturer's standard warranty.
- E. LEED: Submit manufacturer's LEED Certification.
- F. Applicator Qualifications: Submit list of projects referenced as documented in this Specification under Quality Assurance Section.
- G. Quality Control Submittals:
1. Provide protection plan of surrounding areas and non-work surfaces.

### **1.03 QUALITY ASSURANCE**

- A. Comply with Sections [01400] [\_\_ \_\_ \_\_].
- B. Manufacturer Qualifications: Manufacturer shall demonstrate that they have manufactured specified products for a minimum of ten years.
- C. Applicator Qualifications: Company shall have a minimum of five years experience in the application of specified products on projects of similar size and scope and is acceptable to the product manufacturer.

### **1.04 DELIVERY, STORAGE, AND HANDLING**

- A. Comply with Section [01 60 00]
- B. Deliver materials in manufacturer's original, unopened, sealed containers with all label identification intact.
- C. Store materials in unopened containers in dry, clean area between 40°F (4°C) and 85°F (29°C).

### **1.05 PROJECT CONDITIONS**

- A. Environmental Requirements:
  - 1. In accordance with manufacturer's recommendations substrate and ambient temperature shall be 40°F (4°C).
  - 2. Do not apply if frost is present on the substrate.
  - 3. Keep from freezing.
  - 4. Weather Conditions: Allow surface to attain temperature ranges and conditions recommended by manufacturer before proceeding with installation.
  - 5. Do not apply above 85°F (29°C) or below 40°F (4°C).
  - 6. Compliance: Follow manufacturer's instructions with regard to safety, health, and state and local environmental regulations.
- B. Protection:
  - 1. Wear protective goggles, gloves, and clothing during the application of the material.

## **1.06 WARRANTY**

- A. Provide manufacturer's limited warranty, co-signed by contractor and applicator, under provisions of section (01700), (01740). Warranty should state that structurally sound treated surfaces shall remain water repellant, dust proof, hardened and abrasion resistant for (\_\_\_\_\_) years from date of application. Comply with manufacturer's warranty registration procedures.

## **PART 2 – PRODUCTS**

### **2.01 MANUFACTURER**

- A. Vexcon Chemicals, Inc.  
7240 State Road  
Philadelphia, PA 19135  
Phone: 215.332.7709  
Fax: 215.332.9997  
Email: [techservice@vexcon.com](mailto:techservice@vexcon.com)  
www.vexcon.com
- B. Substitutions: Comply with Section [01 60 00]

### **2.02 MATERIAL**

- A. Penetrating Liquid Floor Treatment: Clear, chemically reactive, waterborne solution of silicate material and proprietary components, odorless, that penetrates, hardens and densifies concrete surfaces.
  - 1. Product as basis of design: StarSeal PS Clear by Vexcon Chemicals.
- B. Floor Treatment will have the following minimum performance properties:
  - 1. ASTM D-2369 Solids: 18% Minimum
  - 2. ASTM D-2047 Coefficient of Friction: Average - 0.54
  - 3. VOC: 0 grams/liter

## **PART 3 – EXECUTION**

### **3.01 EXAMINATION**

- A. Verify substrate conditions are acceptable for floor treatment installation in accordance with manufacturer's instructions. Do not proceed with work until any unsatisfactory conditions are corrected.
  - 1. General: Determine acceptable removal techniques for contaminants harmful to floor treatment performance, such as dust, dirt, grease, oils, curing compounds, form release agents, laitance, efflorescence, existing films and other water repellent coatings.

### **3.02 SURFACE PREPERATION**

- A. Protect all surfaces not to be treated as directed by manufacturer.
- B. Repair cracks in substrate.

**Specifier note:** Consider incorporating StarSeal Fusion

- C. Clean surface to be treated of all dirt, oil, grease, efflorescence, laitance, dust, and other contaminants according to manufacturer's instructions.
- D. Do not apply floor treatment if standing water or frost is visible.
- E. Surfaces shall be capable of absorbing floor treatment.

### **3.03 APPLICATION**

- A. Apply floor treatment according to manufacturer's instructions.
- B. Do not dilute material.
- C. Material should be agitated before and during application.
- C. Apply floor treatment to saturation.

### **3.04 PROTECTION**

- A. Protect finished surfaces from damage and soiling and other construction activities.

**END OF SECTION**