



VEXCON
CHEMICALS, INC.

Concrete solutions for architects, engineers and builders since 1974
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SECTION 09 96 23 Graffiti Resistant Coating

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

1.1 SUMMARY

- A. Section includes:
 1. Powercoat Anti-Graffiti WB non sacrificial breathable water based anti-graffiti and waterproof coating system for exterior vertical/wall concrete and masonry surfaces.
- B. Related Sections:
 1. Section 03 30 00 – Cast-in-Place Concrete
 2. Section 03 41 00 – Precast Structural Concrete
 3. Section 03 45 00 – Precast Architectural Concrete
 4. Section 03 47 00 – Site-Cast Concrete
 5. Section 09 97 23 – Concrete and Masonry Special Coatings

1.2 SUBMITTALS

- A. Comply with Section [01 33 00] [__ __ __].
- B. Product Data: Submit manufacturer's product data include generic description, surface preparation, and application instructions.
- C. MSD Sheet indicating VOC content and safety precautions.
- D. Manufacturer's Quality Assurance: Submit manufacturer's certification that coating complies with specified requirements and is suitable for intended application.
- E. Warranty: Submit manufacturer's standard warranty.
- 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

1.3 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.
- D. **Field Test Sample:**
 - 1. Install at project site an area for field sample, minimum 8 feet by 8 feet using specified material.
 - 2. Apply material in accordance with manufacturer's written application instructions.
 - 3. Manufacturer's representative or designated representative will review technical aspects; surface preparation, repair, and workmanship.
 - 4. Field sample will be standard for judging workmanship on remainder of project and will become the basis for accepting or rejecting actual application procedures used on the wall.
 - 5. Maintain field sample during construction for workmanship comparison.
 - 6. Do not alter, move, or destroy field sample until work is completed and approved by Architect.
 - 7. Obtain Architect's written approval of field sample before start of material application, including approval of aesthetics, color, texture, and appearance.
 - 8. Perform adhesion test in accordance with ASTM D3359.

1.4 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 45°F (7° C) and 90°F (32° C).

1.5 PROJECT CONDITIONS

- A. Environmental Requirements:
1. In accordance with manufacturer's recommendations substrate and ambient temperature shall be 50°F (10° C) and rising at installation time. Contact manufacturer for application instructions when below 50°F.
 2. Do not apply if frost is present on the substrate.
 3. Weather Conditions: In accordance with manufacturer's instruction, do not apply coating in snow, rain, or mist or when such conditions are expected. Allow surface to attain temperature ranges and conditions recommended by manufacturer before proceeding with installation.
 4. Do not apply on windy days.
 5. Keep from freezing.
 6. Do not apply in rain or when rain is expected within 24 hours.
 7. Do not apply above 85°F (29°C) or below 50°F (10°C).
 8. 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.
 2. Warn personnel against breathing vapors and contact of materials with skin or eyes.

1.6 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 coated surfaces shall remain adhere to and provide resistance properties for five (5) years from date of application. Comply with manufacturer's warranty registration procedures.

PART 2 – PRODUCTS

2.1 MANUFACTURER

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

2.2 MATERIAL

- A. Coating System:
 - 1. Product(s) as basis of design:
 - b) System 1:
 - i. Powercoat Anti-Graffiti WB: 2 - part polyurethane non sacrificial breathable water based anti-graffiti and waterproof coating for exterior vertical/wall concrete and masonry surfaces.
 - a) Color(s): To be selected by architect or owner.
 - c) System 2:
 - i. Certi-Vex Envio [Smooth] [Tex] Emulsion: Decorative breathable water based high build 100% acrylic waterproof coating.
 - a) Texture: As indicated on drawings or selected by owner.
 - b) Color(s): To be selected by architect or owner.
 - ii. Powercoat Anti-Graffiti WB: 2 - part polyurethane non sacrificial breathable water based anti-graffiti and waterproof coating for exterior vertical/wall concrete and masonry surfaces.
 - a) Color(s): To be selected by architect or owner.
- B. Performance Criteria: Anti-Graffiti System shall have the following minimum performance properties:
 - 1. ASTM G53/G154 Accelerated Weather: Meets Requirements
 - 2. ASTM D253 1500 Specular Gloss, Initial 103 units (60°), final 103 units(60°)
 - 3. ASTM D1209 Color, Initial <5, final <50
 - 4. ASTM C1262 Freeze Thaw Resistance, after 100 freeze thaw cycles; cracking none, adhesion loss none.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Applicator to verify substrate conditions are acceptable for coating system installation in accordance with manufacturer's instructions. Do not proceed with work until any unsatisfactory conditions are corrected.

3.2 SURFACE PREPERATION

- A. Protect adjacent work areas and finished surfaces.
- B. Prepare surfaces in accordance with manufacturers instructions.
- C. Clean surface to be treated of all dirt, oil, grease, efflorescence, laitance, dust, and other contaminants according to manufacturer's instructions.
- D. Repair small cracks and voids with Certi-Vex Patch RTU.
- E. Repair larger damaged areas with repair materials approved by coating manufacturer.

3.3 APPLICATION

- A. Mix and prepare coating system in accordance with manufacturer's instructions.
- B. Material should be agitated before and during application.
- C. Apply coating as a 2 coat system.
- D. Maintain proper uniform wet film thickness during application to ensure performance characteristics desired.
- E. Apply coating using consistent application techniques to achieve uniform appearance.

3.4 PROTECTION

- A. Protect applied coating system from damage during construction.

END OF SECTION