

# Protective Coatings

**Section 03350 or 07 18 13**  
**Horizontal Concrete Finish**

**CONPRO TOP COAT**

## **PART I: GENERAL**

### **1.01 DESCRIPTION**

Provide labor, materials, equipment and supervision necessary to complete the application of product to existing substrate.

### **1.02 QUALITY ASSURANCE**

Products shall be installed by a trained applicator with a minimum of five years experience and meet the requirements of the specifier.

### **1.03 SUBMITTALS**

- A. Manufacturer's current product data bulletin.
- B. The trained applicator shall prepare a test panel on the actual structure as a submittal for approval of proper application and adhesion.
- C. The trained applicator shall submit to the specifier a list of five projects that he has completed within the last five years, exhibiting the applicator's skills. The list shall include project name, location, and description of work and completion date.

### **1.04 PRODUCT DELIVERY, STORAGE & HANDLING**

- A. Deliver all products and all accessories in original labeled, sealed, and undamaged containers or bundles.
- B. Store all products in accordance with manufacturer's printed instructions.
- C. Handle products in accordance with manufacturer's printed instructions.

### **1.05 JOB CONDITIONS**

All products shall be applied at substrate and ambient temperatures of 45°F or above. A minimum temperature of 45°F shall be maintained 24 hours after completion of work. Protect products from weather and other damage for a period of 24 hours after installation. Do not apply products to frozen surfaces.

### **1.06 COORDINATION & SCHEDULING**

The work requires close coordination with related sections and trades.

## **PART II: PRODUCTS**

### **2.01 MANUFACTURERS**

The following manufacturers are approved for the project.

Conproco Corporation

## 2.02 MATERIALS

- A. Top Coat: A two component, cement based coating for finishing and waterproofing horizontal concrete surfaces.
- B. Color: \_\_\_\_\_

## 2.03 PERFORMANCE CHARACTERISTICS

General Physical Properties: The products shall meet or exceed the following performance standards:

Physical state and appearance		Fine, white powder and admix
Base		
Powder		Portland cement
Liquid		Acrylic admixture
Density	Wet mix	93 lbs./ft. <sup>3</sup>
Dry bulk Density	ASTM C188	110 lbs./ft. <sup>3</sup>
Working time		60 minutes @ 75°F
Setting time by vicat needle	ASTM C191	240 minutes
Durometer hardness	ASTM D2240	70
Resistance to hydrostatic pressure	CRD-48-73	45 ft. head of water – no leakage – 2 coats
Carbon-arc weathering	ASTM G152	2000 hours – excellent – no effect
Length change	ASTM C157	<1100 µstrains @ 28 days
		<b>7 Days      14 Days      28 Days</b>
Compressive strength – psi	ASTM C109	4000      4200      4650
Tensile strength		200      250      350

## **PART III: EXECUTION**

### 3.01 GENERAL

- A. Installation shall be performed strictly in accordance with manufacturer’s current product data bulletin.
- B. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.
- C. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas and landscaping from contact due to mixing, handling, and application of materials.

### 3.02 SURFACE PREPARATION

- A. Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- B. Remove a minimum 1/16-inch of surface by abrasive blasting, steel shotblasting, and scarifying, needle-scaling or high-pressure water.

### 3.03 MIXING

- A. Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- B. Thoroughly shake Conpro Top Coat Admix until the contents are uniformly mixed.
- C. Add 1 gallon Conpro Top Coat Admix to a clean mixing vessel and blend with 3-4 quarts of water.
- D. While mixing, slowly add the Conpro Top Coat bag contents to the water/admix solution. Mix at a low speed for 3 minutes. Scrape sides and add water as needed to achieve a slurry-like consistency.

- E. Allow to stand 3 minutes and then remix for 1 additional minute. Maintain consistency from mix to mix.

### **3.04 APPLICATION**

- A. At time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- B. Use a sponge float, roller, brush or sprayer to apply Conpro Top Coat over existing and repaired surfaces. Work from the natural break to natural break to eliminate cold joints.
- C. Apply a 60 mils. coat over the entire surface with a stiff bristle brush, heavy knap roller, sponge float, squeegee or spray
- D. Work material into substrate to promote proper adhesion
- E. Finish with a sponge float or trowel.

### **3.05 CURING**

- A. Keep damp with a fine mist of water.
- B. Protect from direct sunlight, wind, rain, and frost during curing period.

### **3.06 JOB SITE CLEANUP**

- A. Material left over at the job site by the approved applicator shall be removed.
- B. Clean tools and equipment with water immediately after use.
- C. All adjacent surfaces and materials shall be cleaned.
- D. Cured material must be removed mechanically.

\*\*\*\*\*END OF SECTION\*\*\*\*\*



17 PRODUCTION DRIVE, DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 800.258.3500 FAX 603.743.5744 WEB ADDRESS [www.conproco.com](http://www.conproco.com)