

# Protective Coatings

## Section 07570 or 07 18 13 Waterproof Traffic Membrane

**ELASTIDECK**

### **PART I: GENERAL**

#### **1.01 DESCRIPTION**

Provide labor, materials, equipment and supervision necessary to complete the application of product to existing the 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. Elastideck: A two-component, acrylic modified, flexible waterproofing membrane for above grade waterproofing of horizontal concrete surfaces. Elastideck provides abrasion resistance and waterproofing to the existing substrate.
- B. Color: \_\_\_\_\_

## 2.03 PERFORMANCE CHARACTERISTICS

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

Physical state and appearance		White powder and admix
Base		
Powder		Portland cement
Liquid		Milky, liquid emulsion
Polymer		Styrene acrylic
pH	Wet mix	>12
VOC	ASTM D3960	Less than 0.15 lbs./gal. (per mixed kit)
Setting time	ASTM C953	Initial 120 minutes – Final 300 minutes
Elongation	ASTM D2370	180%
Water vapor transmission	ASTM E96	8 – 10 perms
Resistance to hydrostatic pressure	CRD-48-73	100% reduction
Accelerated weathering	ASTM C1519	2000 hours – no effect
Taber abrasion resistance	ASTM C1353	2000 cycles, less than 0.8% weight loss (H22 wheel with 500 grams of weight)
Tensile strength – psi	ASTM C307	810
Mandrel bend test	ASTM D522	1/8 in. @ 68°F and 27°F

## **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. The concrete deck surface must be free of ridges and sharp projections. If metal form or decks are used they should be ventilated to permit adequate drying time of concrete on exterior exposed deck.
- C. The concrete must have cured for a minimum of 7 days (minimum 3,000 psi compressive strength). Water-cured treatment of concrete is recommended.
- D. Restore any damaged areas of the concrete deck to match adjacent areas.
- E. All surface preparation shall be determined prior to application in accordance to ICTI Technical Guideline No. 03732 Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays.
- F. Clean and pre-stripe non-structural cracks (up to 1/16 inch) with one 4 inch wide, 50 mils. application of Elastideck.

- G. Dynamic cracks, joints and transitions (wall-to-slab) must be properly detailed with a closed cell backer rod and polyurethane sealant.

### **3.03 PRIMING**

No priming is necessary under normal circumstances.

### **3.04 MIXING**

- A. Stir or mechanically mix using a low speed drill (400 – 600) until homogenous.
- B. Thoroughly shake Elastideck Admix to disperse the pigment.
- C. Pour Elastideck Admix into a clean mixing vessel and slowly add all of the powder.
- D. Mix continuously for 3 minutes to a uniform, lump-free consistency.
- E. Do not over mix, as this will entrain excess air.
- F. Do not re-temper.

### **3.05 APPLICATION**

- A. At time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- B. Apply 50 mils. coat over the entire surface with a stiff bristle brush, heavy nap roller, sponge float, squeegee or spray.
- C. Work material into substrate to promote proper adhesion.
- D. Do not overwork the finish.
- E. Apply Super Color Stain HR in the same color as Elastideck for color uniformity, added abrasion and stain resistance.

### **3.06 CURING**

Protect from direct sunlight, wind, rain, and frost during the curing period.

### **3.07 JOB SITE CLEANUP**

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

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



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