

**PART 1 - GENERAL**

**1.01 DESCRIPTION**

- A. Work Included: Furnish and apply materials specified.

**1.02 RELATED DOCUMENTS**

- A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are located in Division 01 of the Specifications.

**1.03 SUBMITTALS AND SUBSTITUTIONS**

- A. In accordance with Section 01 3000.
- B. Substitutions will not be considered prior to the award of the General Contract.

**1.04 QUALITY ASSURANCE**

- A. Qualifications of Applicators: Use only workmen thoroughly trained and experienced in skills required, completely familiar with manufacturer's recommended methods of application, and completely familiar with requirements of this Section of specifications.
- B. Manufacturer's Directions: Carefully follow manufacturer's printed directions in application. Make available printed directions to Architect's Representative if requested.

**1.05 WARRANTY**

- A. Provide Installer's two (2) year guarantee and Manufacturer's five (5) year non-prorated, material warranty for moisture penetration.

**PART 2 - PRODUCTS**

**2.01 CEMENTITIOUS COATING SYSTEM**

- A. MANUFACTURERS: Subject to compliance with requirements, provide products from the following manufacturer: Sika, or approved equal.
- B. MATERIALS: Water-based, high-build, 100 percent acrylic, waterproof coating.

Thorocoat 400 by Sika.

1. Sika Thorocoat 400 Fine:  
Density, ASTM D1475: 13.1 to 14.1 lbs per gal (1.57 to 1.69 kg/L).  
Solids Content, ASTM D5201:  
By Weight: 68.6 percent.  
By Volume: 49 percent.  
Viscosity, ASTM D562: 117 to 125 KU.  
VOC Content, ASTM D3960: 0.57 lbs per gal (68 g/L), less water and exempt solvents.

C. Performance Requirements:

1. Resistance to Wind-Driven Rain, Federal Specification TT-C-555B: Meets requirement. No water penetration.
2. Accelerated Weathering, ASTM G23, Type D, 5,000 hours: Passes.
3. Visual Color Change, ASTM D1729, 5,000 hours: Passes.
4. Chalking, ASTM D4214, 5,000 hours: Passes.
5. Freeze/Thaw Resistance, DOT Methods A and B, 50 cycles: Passes.
6. Water-Vapor Permeance, ASTM D1653: 13 perms.
7. Moisture Resistance, Federal Specification TT-C-555B: Meets requirement. No blistering, loss of adhesion, or discoloration.
8. Flexibility, ASTM D1737, 1-inch mandrel: No cracking.
9. Dirt Pick-Up, ASTM D3719, after 6 months exposure: 92.02 percent. Passes.
10. Sand Abrasion Resistance, ASTM D968, Method A, at 3,000 L: Passes.
11. Impact Resistance, ASTM D2794, at 30 in-lbs: Passes.
12. Surface Burning Characteristics, ASTM E84:  
Flame Spread: 1.  
Smoke: 4.  
Fuel Contribution: 7  
Flash point, Greater than 200 degrees F (93 degrees C) ASTM D 56 Tag Closed Tester
13. Approximate Coverage Rate: 75 to 100 sq ft per gal (1.84 to 2.46 m<sup>2</sup>/L).
14. Wet Film Thickness (WFT):  
Smooth: 16 to 22 mils (406 to 559 microns).  
Fine: 16 to 22 mils (406 to 559 microns).  
Coarse: 16 to 22 mils (406 to 559 microns).
15. Dry Film Thickness (DFT):  
Smooth: 6 to 8 mils (152 to 203 microns).  
Fine: 8 to 11 mils (203 to 279 microns).  
Coarse: 8 to 11 mils (203 to 279 microns).

D. Color to be selected from Manufacturer's complete line.

## 2.03 MASONRY CAVITY WALL DAMPPROOFING

A. At existing exterior masonry cavity wall, provide material applied to the outer face of the inner masonry wythe.

1. W.R. Meadows Seal Tight "Sealmastic Emulsion". TYPE I (spray-grade),

TYPE II (brush- or spray-grade) and TYPE III (trowel-grade) can be used individually or in combination.

### **PART 3 - EXECUTION**

#### **3.01 SURFACE CONDITIONS**

- A. Inspection: Carefully inspect installed work of other trades and verify that work is complete to point where this installation may properly commence.
- B. Discrepancies: Do not proceed with application in areas of discrepancy until discrepancy are fully resolved.

#### **3.02 APPLICATION IN GENERAL**

- A. Preparation: Prepare surfaces to receive water repellent, strictly complying with manufacturer's recommendations.
- B. Application: Apply water repellent complying with manufacturer's recommendations, covering areas to prevent penetration of moisture.

#### **3.03 APPLYING CEMENTITIOUS COATING SYSTEM**

- A. Apply Blockfiller at a rate not to exceed 100 square feet per gallon. Allow a minimum of 2 to 4 hours drying time before top coats are applied.
- B. Apply coating in 2 coats, at approximately 60 to 100 square feet per gallon, per coat. Apply at a minimum of 12 to 16 mils total DFT (smooth texture).
- C. For roller application use a 3/4 inch to 1 inch nap roller cover. Keep roller fully loaded with material, cross-roll working uniformly, maintaining a wet edge throughout. Material may need to be brush applied into mortar joints.
- D. For spray application use spray equipment recommended for heavy-bodied textured coating materials. Backroll for proper distribution.
- E. Allow to cure a minimum of 2 to 4 hours between applications at a minimum of 70 degrees F. and 50 percent relative humidity. Lower temperatures and higher relative humidity will require longer curing times.
- F. Finished system shall be pin-hole free.
- G. Match approved samples for color, sheen and coverage. Remove, refinish or re-coat work not in compliance with Contract documents.

**END OF SECTION**