

**SECTION 07 14 16  
FLUID APPLIED WATERPROOFING (SOLVENT BASED)  
CONCRETE TOPPING OVER CONCRETE SUBSTRATE (WITH DRAINAGE MAT)**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Fluid applied flexible rubber based waterproofing system for Concrete Topping over Concrete Substrate (with Drainage Mat).

**1.2 RELATED SECTIONS**

- A. Section 03 30 00 Cast in place concrete
- B. Section 07 60 00 Flashing and Sheet Metal
- C. Section 07 62 00 Sheet Metal Flashing and Trim

**1.3 REFERENCES**

- A. ASTM D412 Test Method for Tensile Properties of Plastics.
- B. ASTM D1204 Test Method for Linear Dimensional changes of Non-rigid Thermoplastic Sheeting or Film at Elevated Temperature.
- C. ASTM G26 Practice for Operating Light Exposure Apparatus (Xenon Arc Type) With and Without Water for Exposure of Non Metallic Surfaces.
- D. ASTM E96 Water Vapor Transmission of Materials.
- E. ASTM E108 Test Methods for Fire Test of Roof Coverings.
- F. FM 4470 Wind Uplift Resistance.

**1.4 SUBMITTALS**

- A. Shop Drawings:
  - 1. Indicate special joint or termination conditions and conditions of interface with other materials.
- B. Product Data:
  - 1. Provide data for rigid insulation material.
  - 2. Provide data for material description, physical properties, recommended storage conditions, shelf life, precautions, flexible flashings, and joint and crack sealants, with temperature range for application of waterproofing membrane.
  - 3. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
  - 4. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
  - 5. Test data: Provide documentation supporting tests referred to under item 1.3.

**1.5 QUALIFICATIONS**

- A. Applicator: Company specializing in performing the work of this section approved by manufacturer.
- B. Manufacturer shall have been in business and shall have had experience in manufacturing these products for a minimum of 15 years.

**1.6 REGULATORY REQUIREMENTS**

- A. CT Products are Naphtha based and are **HIGHLY FLAMMABLE!**
- B. CT Products **MUST** be **POURED** out of the bucket then applied. **DO NOT** plunge roller into bucket, as static electricity from the roller may start a fire.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
  - 1. Name of manufacturer
  - 2. Name of contents and products code
  - 3. Net volume of contents
  - 4. Lot or batch number
  - 5. Storage temperature limits



- C. Surface Primer:  
Sealoflex Dampseal 101™ Epoxy Primer if substrate moisture > 8%
- D. Rust Neutralizer:  
Rust X-2020™ Light surface rust neutralizer
- E. Metal Primer:  
Sealoflex Metal Etch Primer™ Corrosion resistant acrylic primer for ferrous metal
- F. Adhesive Sealant:  
Generic Single-part polyurethane caulk

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify substrate surfaces are durable, free of frozen matter, dampness, loose particles, cracks, pits, projections, or foreign matter detrimental to adhesion or application of waterproofing system.
- B. Verify that substrate surfaces are smooth, and not detrimental to full contact bond of waterproofing materials.
- C. Verify that deck surface has positive drainage.
- D. It is recommended that all concrete be tested for moisture content prior to application of the Sealoflex System. Structural concrete moisture should be < 8%. Cellular Lightweight concrete moisture should be < 19%. If the moisture content is greater than specified, it is recommended that Dampseal 101™ be applied over Sealoment Plus™.

### 3.2 PREPARATION

- A. Protect adjacent surfaces not designated to receive waterproofing.
- B. Clean and prepare surfaces to receive waterproofing by removing all loose and flaking particles, grease and laitance.
- C. Do not apply waterproofing to surfaces unacceptable to manufacturer.
- D. Seal cracks and joints with sealant materials using depth to width ratio as recommended by sealant manufacturer.

### 3.3 APPLICATION

- A. Apply primer(s), if applicable, depending upon surface conditions. Allow to dry.
- B. Apply 3/8" triangular bead of single Adhesive Sealant at internal corners.
- C. Apply Base Coat, Flashing Fabric and Saturation Coat over board joints, cracks, flashings and non-working joints and perimeter, at 30 sq.ft. per gallon. Allow to dry.
- D. Optional: install primed metal drip edge at perimeter, adhering into place with Adhesive Sealant.
- E. Apply Base Coat, Field Fabric and Saturation Coat at 30 sq. ft. per gallon over the entire area. Overlap adjacent runs of fabric 3" minimum. Allow to dry.
- F. Apply two coats of Finish Coat over the entire area at 140 sq. ft. per gallon per coat. Allow to dry between coats.
- G. Waterproofing system should be a minimum of 40 mils total cured thickness.
- H. Allow waterproofing system to cure 7 days.
- I. Install Drainage Mat over the entire area and secure in place with waterproof tape.
- J. Install Concrete Topping as designed by engineer.

### 3.4 CLEANING

- A. Clean unscheduled surfaces receiving waterproofing in accordance with manufacturer's instructions.

### 3.5 PROTECTION OF FINISHED WORK

- A. Protect finished waterproofing from inclement weather until cured.

END OF SECTION

**IMPORTANT NOTE:** Always check our website, [www.sealoflex.com](http://www.sealoflex.com) to determine if the printed literature you are reading is the most current version available.