

**SECTION 07 14 16
FLUID APPLIED WATERPROOFING (SOLVENT BASED)
TILE OVER CONCRETE SUBSTRATE (DIRECTLY APPLIED)**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fluid applied flexible rubber based waterproofing system for Tile over Concrete Substrate (directly applied).

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
- G. Tile Thinset:
Sealoflex Corabase™ Cementitious tile adhesive

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. Install Tile and adhere into place using Tile Thinset. **BE SURE TO PROVIDE 1/4" EXPANSION JOINT SPACE AT 10' INTERVALS IN ALL DIRECTIONS. ALSO AN EXPANSION JOINT MUST BE AT ALL WALL TERMINATIONS AND OTHER PENETRATIONS. DO NOT ALLOW ANY TILE THINSET TO BE IN THE EXPANSION JOINT LOCATION.**
- I. Fill expansion joint with Adhesive Sealant to the top of the tile.

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.

IMPORTANT NOTE: Always check our website, www.sealoflex.com to determine if the printed literature you are reading is the most current version available.

END OF SECTION