

**SECTION 07 14 16  
FLUID APPLIED WATERPROOFING (WATER BASED)  
OVER RIGID INSULATION**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Fluid applied flexible acrylic waterproofing system over Rigid Insulation.

**1.2 RELATED SECTIONS**

- A. Section 07 22 16      Roof and Deck Insulation Board

**1.3 REFERENCES**

- A. ASTM D2370      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 material description, physical properties, recommended storage conditions, shelf life, precautions, flexible flashings joint cover sheet, and joint crack sealants, with temperature range for application of waterproofing membrane.
- C. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- D. Test Data: Provide documentation supporting tests referred to under 1.3.

**1.5 QUALIFICATIONS**

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

**1.6 REGULATORY REQUIREMENTS**

- A. Products: V.O.C. Requirements shall be less than 90 grams/liter.

**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
  - 6. Shelf life expiration date
  - 7. Mixing instructions and proportions of contents
  - 8. Safety information and instructions
- B. Store and protect materials from damage and weather in accordance with manufacturer's instructions.
- C. Store materials at temperatures between 40°F and 90°F. Keep out of direct sunlight.
- D. Support stored material containers on pallets and cover with tarpaulin tied to bottom of pallets.



## 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 material.
- C. Verify that roof surface has positive drainage.

### 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 dirt.
- 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 primers, if applicable, depending upon surface conditions. Allow to cure.
- B. Apply 3/8" triangular bead of Adhesive Sealant at internal corners
- C. Apply Base Coat, Flashing Fabric, and Saturation Coat over board joints, cracks flashings, and non-working joints at 30 sq ft per gallon. Allow to dry
- D. Optional: apply metal drip edge at perimeter, adhering into place using 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 mil total cured thickness

### 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 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.