

**SECTION 07 14 16  
FLUID APPLIED WATERPROOFING (WATER BASED)  
OVER SLOPED METAL**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Fluid applied flexible acrylic waterproofing system over Sloped Metal.

**1.2 RELATED SECTIONS**

- A. Section 07 15 00 Sheet Metal Roofing.
- B. Section 07 60 00 Sheet Metal Flashing and Trim: Metal counter flashing work.
- C. Section 05 05 00 Basic Metal Material and Methods.
- D. Section 05 05 13 Shop-Applied Coatings.
- E. Section 05 05 23 Metal Fastening.

**1.3 REFERENCES**

- A. ASTM D638 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 E330 Test Method for Structural Performance of Exterior Panels by Uniform Static Air Pressure Difference.
- F. ASTM E108 Test Methods for Fire Test of Roof Coverings.

**1.4 SUBMITTALS**

- A. Shop Drawings: Indicate special joint or termination conditions and conditions of interface with other materials.
- B. Product Data: Provide data for surface condition, 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. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

**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 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 gram/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 OR 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 store material containeres on pallets and cover with tarpauline tied to bottom of pallets.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply if rain is expected before the application has time to dry.
- B. Temperatures should remain in the following ranges during application, drying and curing:
  - a. For Solvent based products:
    - i. Ambient Temperatures: between 32°F and 105°F
    - ii. Surface Temperature: between 32°F and 130°F
  - b. For Water based products:
    - i. Ambient Temperatures: between 45°F and 105°F
    - ii. Surface Temperature: between 40°F and 130°F

1.9 WARRANTY

- A. Upon contractor's completion of project and proper submittal of warranty request forms and documentation, manufacturer will determine acceptance and issue 10 year manufacturer's warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Sealoflex, Inc  
2520 Oscar Johnson Dr.  
Charleston, SC 29405  
www.sealoflex.com
- Phone: (843) 554-6466  
Toll Free: (800) 770-6466  
Fax: (843) 554-6458

2.2 MEMBRANE COMPOUND MATERIAL

- A. Waterproofing Material: Sealoflex three-stage, fabric reinforced, flexible, acrylic coating; liquid applied in successive stages to form one continuous, seamless watertight membrane; 45 mil minimum cured total system thickness; comprised of the following:

- 1. Base and Saturation Coat:  
Sealoflex Pink® Highly flexible water based acrylic emulsion coating
- 2. Flashing Fabric:  
4", 6", 12", 20" Sealoflex Fabric™ Polyester, non-woven, stitch bonded and heat set fabric
- 3. Field Fabric:  
40" Sealoflex Fabric™ Polyester, non-woven, stitch bonded and heat set fabric
- 4. Finish Coat:  
Sealoflex Finish Coat™ Ultraviolet light resistant blend of highly flexible waterbased acrylic co-polymer resin coating.

- B. Cured Membrane Characteristics:

<u>PROPERTY</u>	<u>TEST</u>	<u>RESULT</u>
Tensile Strength	ASTM D2370	3109 psi
Elongation	ASTM D2370	61%
Dimensional Stability	ASTM D1204	<0.44% change
Weathering	ASTM G26	No effect on physical properties after 3600 hours
Moisture Vapor	ASTM E96	3.2 grain/hr./sq.ft
Wind Uplift	ASTM E330	Satisfies SFBC for roofs 150 ft. in elevation
Fire Rating	ASTM E108	Class A

2.3 ACCESSORIES

- A. Rust Neutralizer:  
Sealoflex Rust X-2020™ Light surface rust neutralizer
- B. Metal Primer:  
Sealoflex Metal Etch Primer™ Corrosion resistant acrylic primer for ferrous metal
- C. Surface Primer:  
Sealoflex Sealobond Primer™ Acrylic Primer if substrate moisture ≤8%
- D. Adhesion Additive:  
Sealoflex Additive 100™ Waterborne adhesion promoter for flouropolymer and silicone polyester coatings.

## 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 the substrate surfaces are smooth, and not detrimental to full contact bond of waterproofing materials.
- C. Verify that roof has positive drainage.
- D. Verify items which penetrate surfaces to receive waterproofing are securely installed.
- E. Verify areas to be treated for rust.

### 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 and treat rusted surfaces.
- C. Wire brush/scrape to remove all scaly rust.
- D. Do not apply waterproofing to surfaces unacceptable to manufacturer.

### 3.3 APPLICATION

- A. Apply Rust Neutralizer to all rusted areas (600 sq ft/gal), allow to dry.
- B. Apply Metal Primer (250 sq.ft./gal) over all areas treated with Rust Neutralizer
- C. Apply appropriate primer over entire field area of metal roof per the following criteria:
  - a. If the metal has an existing acrylic coating, apply Sealoflex Sealobond Primer™ (250 sq ft/gal) over the existing coating.
  - b. If the metal has an existing flouropolymer or silicone polyester use one of the following options:
    - i. Apply Metal Primer (250 sqft/gal) to the entire roof surface
    - ii. Mix in Adhesion Additive (one pint/5 gallons) to the Base Coat and the first coat of Finish Coat
- D. Apply Base Coat, fabric, and Saturation Coat (40 sq ft/gal) to all seams, laps, joints, penetrations and flashing areas.
- E. Apply one Fastener Seals to each exposed fastener.
- F. Apply one coat of Finish Coat (100 sq ft/gal) to the entire surface, allow to dry.
- G. Apply a second coat of Finish Coat (100 sq ft/gal) to the entire surface.

### 3.4 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.