

# 1.1.1 Metal Roofs

## Architectural Specifications

### SECTION 07120 FLUID APPLIED WATERPROOFING (OVER METAL ROOFING)

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Fluid applied flexible acrylic waterproofing system over metal roofing.

##### 1.2 RELATED SECTIONS

- A. Section 07610 - Sheet Metal Roofing.
- B. Section 07620 - Sheet Metal Flashing and Trim: Metal counter flashing work.
- C. Section 15430 - Plumbing Specialties: Drain flashing flanges.

##### 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 E 108 - 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 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.

##### 1.8 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply if ambient temperatures are expected to fall below 45°F or if rain is expected before the application has time to cure.

##### 1.9 WARRANTY

- A. Provide ten year manufacturer's warranty

#### PART 2 PRODUCTS

##### 2.1 MANUFACTURER

- A. Sealoflex, Inc  
2520 Oscar Johnson Dr.  
Charleston, SC 29405  
Phone: (843) 554-6466  
(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 mils minimum cured total system thickness; comprised of the following:
  - 1. Base and Saturation Coats: Sealoflex Pink<sup>®</sup> (highly flexible water based acrylic co-polymer resin coating).
  - 2. Fabric: Sealoflex polyester, nonwoven, stitch bonded and heat-set fabric.
  - 3. Finish Coat: Sealoflex Finish Coat<sup>™</sup> (ultraviolet light resistant, highly flexible water-based acrylic co-polymer resin coating). Color as selected from manufacturer's standard colors.
  - 4. Sealocaps<sup>™</sup>: Self adhesive sealing caps for exposed fasteners.

## SEALOFLEX INC.

### CORPORATE OFFICES

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### SALES OFFICE

CHARLESTON, SC  
HAMBURG, GERMANY  
CANTERBURY, KENT, U.K.



### LIMITED WARRANTY

Sealoflex warrants its products to be free of manufacturing defects and that they will meet Sealoflex's current published physical properties when applied in accordance with Sealoflex's directions. There are no other warranties by Sealoflex of any nature whatsoever, expressed or implied, including any warranty of merchantability of fitness for a particular purpose in connection with this product. Sealoflex Inc. shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty whether expressed or implied, including any warranty of merchantability of fitness for a particular purpose or from any other cause whatsoever.

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### B. Cured Membrane Characteristics:

PROPERTY	TEST	RESULT
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	FM 4470	Meets class 1-690 over concrete
Fire Rating	ASTM E108	Class A

### 2.3 ACCESSORIES

- A. Rust neutralizer: Sealoflex Rust-X 2020™ and Sealoflex Metal Etch Primer™.  
\*\*\*OR\*\*\*
- B. Surface Primer for Previously Painted Surfaces: Metal Etch Primer™  
\*\*\*OR\*\*\*
- C. Surface Primer for metals coated with fluoropolymers or siliconized polyester; Sealoflex Metal Etch Primer™  
\*\*\*OR\*\*\*
- D. Finish coat for metals coated with fluoropolymers or siliconized polyester; Sealoflex Finish Coat™ with Sealoflex Additive 100™.

### 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 items which penetrate surfaces to receive waterproofing are securely installed.
- D. 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 laitence and treat rusted surfaces.
- C. Do not apply waterproofing to surfaces unacceptable to manufacturer.

#### 3.3 APPLICATION

- A. Treating Rust: Wire brush/scrape to remove deep flaking rust. Apply rust neutralizer to affected areas at the rate of 600 sq.ft./gal. Allow to dry for 3 hours. Apply Metal Primer to entire treated surface. Allow to dry. Protect from weather until dry. Then follow with steps B through H within 48 hours.

\*\*\*OR\*\*\*

- A. Priming: Apply surface primer for previously painted surfaces at a rate of 250 sq.ft./gal. Allow to dry. Protect from inclement weather until cured. Then follow with steps B through H within 48 hours.

\*\*\*OR\*\*\*

- A. Finish Coating: Apply finish coat for metals coated with fluoropolymers or siliconized polyester with product additive at the rate of 50 sq.ft./gal. (includes both coats) Allow to dry. Protect from inclement weather until dry.
- B. Apply base and saturation coats at a total rate of 40 sq.ft./gal. (1.0 sq. m/L).
- C. Apply base coat to the prepared area. Embed polyester fabric directly into the base coat and fully saturate from above. Apply at all perimeter flashings and areas where tears, splits, seams, side and end laps, or treated rust holes occur.
- D. Continue waterproofing material up vertical surfaces minimum 3 inches using flashing fabric.
- E. Apply extra thickness of waterproofing material at corners, intersections, angles, and overlap joints.
- F. Seal all exposed fasteners with sealing caps using application tool.
- G. Apply finish coat after base and saturation coats have cured.
- H. Seal watertight, items projecting through waterproof material using flashing fabric.

#### 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 to determine if the printed literature you are reading is the most current version available