



PART 18 GENERAL

07140

TYPE ROOF MEMBRANE:

TYPE PRODUCTS:

RESURFACING BUILT-UP

BUILT-UP

ACRYLASTIC 900 & SUNSHIELD 3800

I.01 Work Included

- A. Work includes application of Davlin Coatings' Acrylastic Elastomeric Waterproof Roof Coating System over existing built-up roofing.
- B. All parts of the "Roofing Specifications" or "General Requirements" and the manufacturer's installation details are pertinent to this specification.
- C. Note: This system is not recommended when roof deck is moderately or heavily damaged and/or deteriorated. If roof leakage is occurring in excess of an average of 1 area per 10 squares (1000 sq. ft.) as a result of deterioration refer to specification entitled *Coating & Roof Repair*.

I.02 Work Not Included

- A. Any modification to building design or roof mounted equipment and/or accessories not found to be part of this specification.

I.03 System Description

- A. A waterborne system comprised of a high-performance single-component elastomeric waterproof roof coating (Acrylastic 900) and a 100% Acrylic top coat (Sunshield 3800).

I.04 References

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM D2370 Tensile Strength p.s.i.: Acrylastic 900 800
 - 2. ASTM D2370 Tensile Elongation, % at break: Acrylastic 900 1000
 - 3. ASTM E96 Procedure B, Moisture Transmission - perms: Acrylastic 900 0.6
 - 4. ASTM D822 Accelerated Weathering, 5000 hours: Acrylastic 900 slight chalking, degradation and sheen loss

I.05 Submittals

- A. Roofing contractor shall furnish the following documents with bid:
 - 1. Proposed start date, number of working days, and schedule of planned process across building.
 - 2. Manufacturer's installation instructions.

I.06 Delivery, Storage, and Handling of Materials

- A. Delivery of materials to the work site in unopened packages bearing the manufacturer's labels.
- B. All materials shall be stored in dry areas in accordance with the instructions of the manufacturer prior to their application or installation.
- C. Do not permit construction materials or equipment to be used or stored in such a manner as to damage decking or completed roofing.

I.07 Project Conditions/ Davlin Products

- A. Do not apply over water-saturated surfaces.
- B. Do not apply over surfaces contaminated with materials which can act as release agents.
- C. Do not apply during, or 24 hours preceding, inclement weather including rain, fog, mist, dew, or freezing temperatures.
- D. Do not apply when surface or air temperature is below 45° F.
- E. When surface or air temperature exceeds 110° F consult Davlin for special application instructions.

I.08 Safety / Coordination

- A. All application, material handling and associated equipment shall conform to and be operated in conformance with OSHA safety requirements.
- B. Davlin's Material Safety Data Sheets (MSDS) shall be read, understood and instructions adhered to.
- C. A sufficient number of filled and operating fire extinguishers meeting current code standards must be on the roof deck at all times during application of roofing materials.

PART 2: PRODUCTS

2.01 Manufacturer

- A. Product manufactured or accepted by Davlin Coatings, Inc.

2.02 Materials

- A. Davlin Coatings, Inc. Acrylastic Asphalt 900
- B. Davlin Coatings, Inc. Sunshield 3800
- C. Polyester Sheeting (Tietex T326 or equal)

PART 3: EXECUTION

3.01 Examination

- A. Verify deck surface is dry, sound, clean and smooth, free of depressions, waves or projections, properly sloped to drains.

3.02 Preparation

- A. Remove all loose gravel and thoroughly clean entire roof just prior to application of Acrylastic 900 by power-washing with soap and water and then rinsing with water before water from power washing has dried. Where roof deck is leaking, instead of washing, power scrub & vacuum.

3.03 Application

- A. Davlin Coatings, Acrylastic 900/3800

1. In areas where roof has deteriorated and water leakage is occurring, apply a coat of Acrylastic Asphalt 900 unreduced at a rate of 1 gallon per square and immediately embed polyester sheeting material into wet coating. Allow to dry. Apply second coat of Acrylastic 900 at a rate of 1 gallon per square. Allow to dry. Apply a third coat at the rate of 1 gallon per square to all areas subject to ponding water. Allow to dry.
2. In areas where roof deck is sound, apply Acrylastic Asphalt in two (2) coats at the rate of 1 gallon per square per coat. Allow to dry. In areas subject to ponding water apply a third coat at the rate of 1 gallon per square. Allow to dry.
3. Apply Sunshield 3800 topcoat at the rate of 1 gallon per 250 sq. ft.

- B. Davlin Coatings Cautions

1. Acrylastic 900 and Sunshield 3800 are supplied as single component coatings. Mix cans thoroughly until homogenous.
2. Avoid excessive agitation to prevent air entrapment and resultant pinholing in film.
3. Acrylastic 900 and Sunshield 3800 are supplied ready mixed. Unless otherwise specified, do not reduce with water or solvents.
4. Store material at room temperature to assure proper application.
5. When spraying Acrylastic 900 and Sunshield 3800 be sure equipment is thoroughly purged of solvents and other foreign material. To spray Acrylastic 900 use a non-diaphragm airless pump rated at $\frac{3}{4}$ + gallons per minute or a diaphragm pump rated at 1+ gallons per minute. Use a .0025" reversible tip or larger.
6. When using a roller, unless otherwise specified, use a short nap ($\frac{1}{2}$ " to 1") roller.
7. Several thin films of Acrylastic 900 will cure more rapidly than one or two thick coats.

3.04 Field Quality Control

- A. Follow recommendations and specifications of Davlin Coatings, Inc. and the manufacturer of the polyester fabric.

3.05 Cleaning

- A. Remove trash and debris. Repair damage. Remove stains from walls and walkways caused by work of this section.

3.06 Protection

- A. Protect finished roof areas from damage during construction.

END OF SECTION

DAVLIN Coatings, Inc.

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