



SPECIFICATIONS

PART 1: GENERAL

07810

WATERPROOFING CONCRETE DECKING

TYPE DECK SURFACE: CONCRETE

TYPE PRODUCTS: ACRYLASTIC 600

I.01 Work Included

- A. Work includes application of Davlin Coatings' Acrylastic Elastomeric Waterproof Deck Coating System over existing concrete deck.
- B. All parts of the "Decking Specifications" or "General Requirements" and the manufacturer's installation details are pertinent to this specification.

I.02 Work Not Included

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

I.03 System Description

- A. A waterborne system comprised of a primer/sealer (Butylseal 572), a high-performance single-component elastomeric deck coating (Acrylastic 600) 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 600 1000
 - 2. ASTM D2370 Tensile Elongation, % at break: Acrylastic 600 400
 - 3. ASTM E96 Procedure B, Moisture Transmission - perms: Acrylastic 600 1.4

I.05 Submittals

- A. 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 off ground in dry areas which will protect the materials from freezing. Store all materials at room temperature to assure proper application.

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.
- F. Do not apply over old coating which is or may become loose.
- G. Do not apply over surface which contains bacteria, mold or mildew.

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.

PART 2: PRODUCTS

2.01 Manufacturer

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

2.02 Materials

- A. Davlin Coatings Butylseal 572
- B. Davlin Coatings Acrylastic 600
- C. Davlin Coatings Sunshield 3800
- D. Davlin Coatings Acryflex 1210
- E. PermaGlass 4" x 180' polyester tape or equal
- F. # 30 Silica sand or crushed walnut shells

2.03 Equipment (See Product Data sheets)

PART 3: EXECUTION

3.01 Preparation

- A. All surfaces of decking shall be clean, free from dirt, release agents, wax, mildew and all other foreign substances. Remove contaminants mechanically or by power washing.
- B. Any current coating lacking excellent adhesion to existing substrate shall be removed.
- C. Any metal surfaces that are not galvanized shall be primed with a suitable metal primer.
- D. Applicator shall protect all property during preparation.
- E. Applicator shall clean up all residues resulting from preparatory work.

3.02 Application

- A. Step 1: Prime Coat
 1. Apply Butylseal 572 as the prime coat over all areas to be coated at the approximate rate of 100-250 square feet per gallon. Coverage rate will vary depending on surface irregularities and porosity.
 2. Use caution when applying Butylseal 572 so as to avoid contact with surfaces not to be coated including windows, railings, etc.
 3. Allow to dry before applying first coat of Acrylastic 600. At ambient temperatures this should take 4-6 hours. At temperatures significantly lower and/or when humidity is much above 60% allow a longer time. If in doubt, allow Butylseal 572 to dry overnight.
 4. Dry time is defined as that amount of time required for the coating to form a film to such a degree that when one's thumb is pressed firmly to the coating, none of the coating will adhere to the thumb.
- B. Step 2: Cracks
 1. Non-structural cracks greater than 1/32 of an inch should be routed out to a minimum 1/4 inch deep. The routed joint shall then be flushed with water to remove grinding dust. Apply a coat of Acryflex 1210 or similar elastomeric caulk 2" either side of crack. Embed 4" polyester tape into wet coating allow to dry. If cracks cannot be routed still apply tape, but embed into Acrylastic 600. Allow to dry.
 2. Non-structural cracks smaller than 1/32 of an inch shall receive an initial coat of ACRYLASTIC 600 by brush, applying coating over crack extending 2" to each side. Tape is optional.
 3. For structural cracks and expansion joints consult Davlin.
- C. Step 3: Existing Flashings
 1. Coat all metal flashing 2" into flashing and 2" out over deck with a coat of Acrylastic 600 and embed 4" wide polyester tape into wet coating. Allow to dry.
- D. Step 4: Base Coat
 1. Apply first coat of Acrylastic 600 at the approximate rate of 1 1/2 gallons per 100 square feet to all areas. Allow to dry.
 2. Apply a second coat of Acrylastic 600 perpendicular to the first at the approximate rate of 1 1/2 gallons per 100 square feet to all areas. Allow to dry.
 3. Optional Non-Skid Surface: Before applying the final coat of Acrylastic 600 mix 3-5 pounds of #30 silica sand or crushed walnut shells into each gallon and apply by roller.
 4. Acrylastic 600 is supplied as a single-component coating. Mix cans thoroughly as needed until homogeneous. Avoid excessive agitation to prevent air entrapment and resultant pinholing in film.
 5. Acrylastic 600 is supplied as ready-mixed. Do not reduce with water or solvents.
 6. Use caution when applying Acrylastic 600 so as to avoid contact with surfaces not to be coated such as windows, railings, etc.
 7. Allow a minimum of 24 hours for the last coat of Acrylastic 600 to dry before applying the Sunshield 3800.
- E. Step 5: Top Coat
 1. Apply Sunshield 3800 as the topcoat evenly at a rate of 250 square feet per gallon in one coat. Apply the coating on the deck uniformly.

3.03 Cleaning

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

END OF SECTION

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