

# Acrylastic 510 Roof Coating



**Acrylastic 510 is a bright white, ultra-tough, waterproofing, copolymer elastomeric coating that works great over:**

- *Acrylastic Ultrarroof 900*
- Spray polyurethane foam
- Mineral surface modified bitumen
- Smooth surface modified bitumen
- Smooth surface built-up roof (BUR)
- Mineral surface built-up roof (BUR)
- Granulated asphalt surfaces
- Hot-mopped asphalt cut-Back
- Emulsion tar and gravel
- Metal and galvanized

**Acrylastic 510 was designed as a single-part water-based coating with the highest performance in coastal, temperate, humid, hot, and extreme alkaline environments. Acrylastic 510 creates a tough, long-lasting protective membrane that remains flexible over time even under adverse conditions. Its elongation and tensile strength provide unsurpassed resistance to maintenance traffic, weather conditions, and wear. Its proprietary formula features copolymer elastomeric resins to produce a seamless, flexible, durable membrane that displays exceptional weatherability and UV resistance. Because it is a high-solids coating, Acrylastic 510 has low shrinkage, allowing it to bridge hairline cracks and provide protection against new cracks forming.**

Due to its light weight, *Acrylastic 510 Roof Coating* can be applied over existing roofs without having to tear them off. This product has better coverage and waterproofing, forming a vapor barrier at 1.2 perms - *10 times better* than most acrylics. During spray application, *Acrylastic 510* cures quickly, allowing for faster job completion. The coating has tenacious adhesion and sticks like an epoxy glue.

*Acrylastic 510 Roof Coating is one of*

## **Davlin's Roof Coatings and Products**

**Seamless • Watertight • Fully Adhered**

- *Ultrarroof 900 Primer*
- *Acrylastic 510 Roof Coating*
- *Roofseal Acrylic Elastomeric Roof Coating*
- *Roofseal Tropical Roof Coating*
- *Sunshield 3800 Top Coat*
- *Roofseal Silicone*
- *Acryflex 1210 Sealant*
- *Acrylastic 810 White Mastic*
- *Acrylastic 910 Mastic*
- *Roof Leveling Compound*
- *Capseal 800 Roofing Mastic Sealer*
- *Roofseal Fabrics, Tapes, and Caps*

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made in the USA  
designed by Davlin in California

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# Acrylastic 510 Roof Coating



## Properties / Specifications

Tensile strength<sup>1</sup>: 1400 psi

Tensile elongation<sup>2</sup>: 2100% at break

Moisture vapor transmission<sup>3</sup>: 1.2 perms

Adhesion, foam<sup>4</sup>: 350 psi (foam cohesive failure)

Shore A hardness<sup>5</sup>: 75

Impact resistance<sup>6</sup>: No surface cracks

Hailstone resistance<sup>7</sup>: No effect

Heat stability<sup>8</sup>: No viscosity change

Resistance to wind-driven rain >100mph<sup>9</sup>: No weight gain

Resistance to ponded water: No blisters, no film degradation

Accelerated weathering at 5000 hours<sup>10</sup>: No chalking, no sheen loss, no discoloration

Fungus resistance<sup>11</sup>: No growth

VOC<sup>12</sup>: 6 g/L

Flash point<sup>13</sup>: >215°F

Viscosity<sup>14</sup>: 100-120 KU

Solids by volume<sup>15</sup>: 50% ± 2%

Solids by weight<sup>16</sup>: 60% ± 2%

Dry film thickness (DFT): 8 mils at 100 sq ft/gallon

Recommended system DFT: 16-48 mils total

Curing mechanism: Air dry

Shelf life: 3 years when properly stored

Dry time to recoat: 4-8 hrs dry through at 70°F

Application temperature, air and surface: 50-100°F

Color: White or custom color

## Test Methods

1 ASTM D2370, 1 in/min

2 ASTM D2370, 1 in/min

3 ASTM E96, Proc. B, 20 mils DFT

4 ASTM D413, Elcometer

5 ASTM D2240

6 U.S.B.R.

7 Fed Spec TT-C-555B, GSA ex 1

8 Fed Std 141 [6051], 160°F for 10 days

9 Fed Std TT-C-555B, 4.4.7 min, 95 mph req.

10 ASTM D822

11 Fed Std 141 [6271], note 2

12 US EPA reference method 24

13 SETA

14 ASTM D562

15 ASTM D2597

16 ASTM D2369

**Limitations:** Do not apply at temperatures below 50°F nor during 24 hours preceding inclement weather, including rain, fog, mist, or freezing temperatures. If the surface and roof temperature are between 50°-70°F, then *Acrylastic 510* may be applied in 1 thick coat of 24 wet mils at a rate of 1.5 gallons per 100 square feet. Do not attempt to apply in thick coats when temperatures are above 70°F, since this can cause coating to skin over quickly on top while the coating underneath remains wet, resulting in blisters. 510's resins allow it to dry faster in warm and windy weather. When applying polyester sheeting, be careful to apply coating in small areas at a time to ensure coating is still wet enough to embed the sheets. PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE. Do not store material at temperatures below 50°F. Consult Davlin for special application procedures when roof or air temperature exceeds 110°F.

**Surface Preparation:** Remove all contaminants and loose material, such as dust, dirt, oil, silicone, release agents, wax, mildew, salt deposits, heavy oxidation, and chalky or loose coating. Check the entire roof surface and thoroughly powerwash it. Flush all equipment with water before use.

•*Polyurethane foam:* Repair all cracks and holes in foam by filling with *Acryflex 1210* and embedding polyester tape or fabric into wet coating. New urethane foam surfaces that require no cleaning should be coated within the time frame recommended by the manufacturer.

**Application:** Stir *Acrylastic 510* thoroughly until uniformly blended, but avoid excessive mixing to prevent air entrapment. Do not apply on exterior below grade surfaces or when a vapor barrier is required. Do not thin. Apply a wet coat in even, parallel passes, overlapping each pass 50% to avoid holidays, bare areas, and pinholes. Cross-roll or spray at right angle to the first pass. Apply 1 coat of *Acrylastic 510* at 1 gallon per 100 square feet, DFT 8.5 mils. Clean equipment with water or water and detergent immediately after use. Allow 4-8 hours to dry. Use Rule-of-Thumb test prior to installing the next coat: when one's thumb is pressed firmly to the coating, none of the coating will adhere to the thumb. Apply second, third, and fourth coats, per system specification. For additional durability, roofing granules may be broadcast into the final coating application at the rate of 35-40 ounces per 100 square feet.

**Equipment:** The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, tip size, and equipment may be needed for proper spray characteristics.

•*Airless:* Standard equipment such as Graco Bulldog Hydra Spray 30 or 45:1 pump with a 0.025- 0.031 inch reversible fluid tip.

•*Conventional:* Industrial equipment such as Binks II:I Saturn pump or equivalent with air control cut-off, a material hose 3/4 inch ID minimum and an air hose 1/2 inch ID and 50-75 psi air pressure minimum. Heavy mastic spray gun such as Binks 7E2 with 1/4 inch fluid tip or larger and slotted nozzle.

•*Brush or Roller:* Suitable for waterborne coating. Multiple coats may be required to achieve specified DFT. Roller nap will vary according to texture of substrate and thickness of coat; typically a 3/4 inch nap will work.

The information, ratings, and opinions stated above are, to the best of our knowledge, accurate, representing the results of laboratory and field evaluation. It is presented in good faith to assist the user in determining whether our products are suitable for his application. Since the user's application and other requirements are not known by us or are beyond our control, no warranty or guarantee as to results is hereby made or implied by Davlin Coatings LLC.