

# Ultrarroof 900 Primer



**Ultrarroof 900 Primer is an ultra-tough, super-waterproofing, alkali-resistant, copolymer elastomeric coating. Davlin's proprietary *Acrylastic* system has a proven track record since 1983.**

## **Ultrarroof Works Great Over:**

- Mineral surface modified bitumen
- Smooth surface modified bitumen
- Smooth surface built-up roof
- Mineral surface built-up roof
- Granulated asphaltic surfaces
- Hot-mopped asphalt cut-back
- Emulsion tar and gravel
- Metal and galvanized

**Ultrarroof 900 was designed as a single part water based coating with the highest performance in coastal, temperate, humid, hot, and extreme alkaline environments. *Ultrarroof 900* 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. Unlike similar generic coatings, *Ultrarroof 900* is formulated to have exceptional adhesion to a variety of substrates. Its proprietary formula features copolymer elastomeric resins to produce a seamless, flexible, durable membrane that displays exceptional weathering ability and good UV resistance. *Ultrarroof 900* offers superior waterproofing but still breathes enough to allow trapped moisture vapor to pass through the film, while remaining impervious to exterior water penetration.**

Due to its light weight, the system can be applied over existing roofs without having to tear them off. *Ultrarroof 900* has better coverage and waterproofs better than the same amount of acrylic or asphalt. During spray application, the coating cures quickly allowing faster job completion.

*Ultrarroof 900* creates superior waterproofing, forming a vapor barrier at 0.6 perms. This is more than 3 times better than asphalt, and 10 times better than acrylics. The coating will minimize problems in ponded areas. Also, *Ultrarroof 900* has tenacious adhesion to the substrate, and sticks like an epoxy glue. Unlike asphalt coatings, *Ultrarroof* is UV resistant, alkali/salt resistant, and microbial resistant.

*Ultrarroof 900 Primer 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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# Ultrarroof 900 Primer

## Properties / Specifications

Tensile strength<sup>1</sup>: 800 psi  
Tensile elongation<sup>2</sup>: 1000% at break  
Moisture vapor transmission<sup>3</sup>: 0.6 perms  
Adhesion, concrete<sup>4</sup>: 400 psi (substrate failure)  
Salt-spray resistance<sup>5</sup>: No rusting  
Alkali resistance<sup>6</sup>: No effect  
Heat stability<sup>7</sup>: No viscosity change  
Resistance to wind-driven rain >100mph<sup>8</sup>: No weight gain  
Resistance to ponded water: No blisters, no film degradation  
Service temperature: 32°F - 200°F  
VOC<sup>9</sup>: <50 g/L  
Flash point<sup>10</sup>: >215°F  
Viscosity<sup>11</sup>: 95-110 KU  
Solids by volume<sup>12</sup>: 52% ± 2  
Solids by weight<sup>13</sup>: 51% ± 2  
Dry film thickness (DFT): 8.5 mils at 100 sq ft/gal  
Recommended system DFT: 16-48 mils total  
Curing mechanism: Air dry  
Clean up: water  
Shelf life: 3 years when properly stored  
Dry time to re-coat: 4-8 hours dry through at 70°F  
Color: Black

### Test Method

- 1 ASTM D2370, 1 in/min
- 2 ASTM D2370, 1 in/min
- 3 ASTM E96, Proc. B, 20 mils DFT
- 4 ASTM D413
- 5 ASTM D1654
- 6 Fed Spec TT-C-555B, GSA ex 1
- 7 Fed Std 141 [6051], 160°F for 10 days
- 8 Fed Std TT-C-555B, 4.4.7 min, 95 mph req.
- 9 US EPA reference method 24
- 10 SETA
- 11 ASTM D562
- 12 ASTM D2597
- 13 ASTM D2369

**Caution:** If surface and roof temperatures are between 50-70°F, *Ultrarroof* 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 *Ultrarroof* in thick coats when temperatures are above 70°F, since this could cause coating to skin over quickly on top while the coating underneath remains wet, resulting in blisters. *Ultrarroof* is black and its unique resins allow it to dry faster than gray or white coatings, especially in warm, windy weather. When applying polyester sheeting, be careful to apply coating in small areas at a time to ensure that the coating is still wet enough to embed the sheets. Consult Davlin for special application procedures when the surface or air temperature exceeds 110°F.

**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 power-wash it. Do not apply at temperatures below 50°F nor during—nor 24 hours preceding— inclement weather, including rain, fog, mist, or freezing temperatures. PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE. Do not store material at temperatures below 50°F. Flush all equipment with water before use. Stir *Ultrarroof* thoroughly until uniformly blended, but avoid excessive mixing to prevent air entrapment.

**Application:** Apply a wet coat in even, parallel passes, overlapping each pass 50% to avoid holidays, bare areas, and pinholes. Cross-roll or spray at a right angle to the first pass. On rough surfaces, back roll the first coat to ensure that coating is pushed deep into surface. Alternately, thin *Ultrarroof* with 1 quart water per gallon to achieve better saturation. Over felt surfaces, thin the base coat to achieve maximum penetration. Apply 1 coat of *Ultrarroof* at 1 gallon per 100 sq ft, 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 equipments 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.