

ACRYLASTIC™ ULTRAROOF™ 900

Technical Data Sheet | High-Performance Elastomeric Roof Coating



TECHNICAL PRODUCT DATA | HIGH-TENSILE ACRYLIC | WATER-BASED | LOW VOC <50 g/L | AIR-DRY

PRODUCT CHARACTERISTICS

Acrylastic™ UltraRoof™ 900 is an ultra-tough, super-waterproofing, alkali-resistant, copolymer elastomeric coating. Davlin's proprietary Acrylastic™ 900 system has a proven track record since 1983. The cured system creates a permanent, liquid-applied roof that is seamless, fully adhered, and watertight. When combined with UltraRoof™ 510, the system's high solar reflectance helps reduce thermal-mechanical stress and cooling loads. A thin glaze coat of Sunshield 3800 can further boost reflectance and keep the surface extra clean.

KEY BENEFITS

- Dramatically reduces the cost of re-roofing, no tear-off necessary.
- Guaranteed performance with Davlin's 5, 10, 15, and 20 year warranties.
- Light weight; restores existing roof; install over the existing roof; avoid a costly tear-off; stop roof deterioration; cures fast; more coverage; waterproof at the lowest cost; considered maintenance.
- Tenacious adhesion; high tensile strength; low perm rate; breathes; resists alkali; resists acid; resists salts.

ENVIRONMENTAL BENEFITS

Acrylastic™ 900 is water-based for easy cleanup and low odor, contains low VOCs, requires few anti-microbial additives due to the low perm rate and smooth top coats, contains no zinc additives, has a low erosion rate, and contributes to cleaner wastewater and healthier air.

MANUFACTURER INFORMATION

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Made in the USA | Designed by Davlin in California
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HIGH-PERFORMANCE | WATER-BASED | AIR-DRY

Provides a waterproof & weatherproof membrane over new or existing roof surfaces

PRODUCT OVERVIEW

Acrylastic™ UltraRoof™ 900 is uniquely formulated to protect existing mineral surface capsheet, granulated modified bitumen, hot-mopped asphalt cut-back or emulsion, tar and gravel, built-up roofing, smooth-surfaced modified bitumen, galvanized metal, and pre-cast concrete. It is a single-part water-based coating designed for coastal, temperate, humid, hot, and extreme alkaline environments. It creates a tough, long-lasting protective membrane that remains flexible over time and provides excellent resistance to maintenance traffic, weathering, UV exposure, wear, and water penetration while still allowing trapped moisture vapor to pass through the film.

SUITABLE SUBSTRATES

Mineral Mod. Bit Smooth Mod. Bit Smooth BUR Mineral BUR Granulated Asphaltic
Asphalt Cut-Back Tar & Gravel Metal / Galvanized Pre-Cast Concrete

52%±2

SOLIDS BY VOLUME

<50 g/L

VOC

800 PSI

TENSILE STRENGTH

1000%

ELONGATION

0.6

PERM RATE

32°-200°F

SERVICE TEMP.

PROVEN PERFORMANCE SINCE 1983 | AVAILABLE WITH DAVLIN
5, 10, 15, AND 20 YEAR WARRANTIES

APPLICATION EQUIPMENT

Equipment changes in pressure, tip size, and setup may be needed for proper spray characteristics.

- **Airless:** Standard equipment such as a Graco Bulldog Hydra Spray 30 or 45:1 pump with a 0.025-0.031 inch reversible fluid tip.
- **Conventional:** Industrial equipment such as a Binks 11:1 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; roller nap varies according to substrate, typically 3/4 inch nap roller.

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PROPERTIES / SPECIFICATIONS*

Property	Test Method	Typical Value
Tensile strength	ASTM D2370, 1 in./min.	800 psi
Tensile elongation	ASTM D2370, 1 in./min.	1000% at break
Moisture vapor transmission	ASTM E96, Proc. B, 20 mils DFT	0.6 perms
Adhesion, concrete	ASTM D413	400 psi (substrate failure)
Salt-spray resistance	ASTM D1654	No rusting
Alkali resistance	Fed. Spec. TT-C-555B, GSA ex.1	No effect
Heat stability	Fed. Std. 141 [6051], 160°F for 10 days	No viscosity change
Resistance to wind-driven rain >100 mph	Fed. Spec. TT-C-555B, 4.4.7 min. 95 mph req.	No weight gain
Resistance to ponded water	-	No blisters, no film degradation
Service temperature	-	32°-200°F
Volatile organic compounds	US EPA Reference Method 24	<50 g/L
Flash point	SETA	>215°F
Viscosity (Stormer K.U.)	ASTM D562	95-110 KU
Solids by volume	ASTM D2597	52% ± 2
Solids by weight	ASTM D2369	51% ± 2
Dry film thickness (DFT)	-	8.5 mils @ 100 ft ² /gal
Recommended system DFT	-	16-48 mils total
Components	-	1
Curing mechanism	-	Air dry
Clean up	-	Water
Shelf life	-	3 years if properly stored
Packaging	-	1, 5, 55, 275 gal
Availability	-	Shipped nationally & internationally
Drying time to re-coat	-	4-8 hours dry-through @ 70°F (21°C)
Application temperature (air and surface)	-	45-100°F (7-38°C)
Color	-	Black

SPECIFICATION NOTES

Typical values shown are based on laboratory testing and field evaluation. The information, ratings, and opinions stated are believed to be accurate; however, the user is responsible for determining whether the product is suitable for the intended application. Consult Davlin Coatings for project-specific guidance.



INSTALLATION / APPLICATION NOTES

WEATHER RESTRICTIONS

Apply at air and surface temperatures between 50°F and 100°F where possible. Do not apply at temperatures below 45°F, nor during or within 24 hours preceding inclement weather, including rain, fog, mist, or freezing temperatures. Protect from freezing during shipment and storage. Do not store material below 50°F.

SURFACE PREPARATION

Remove all contaminants and loose material, including 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 before application.

MIXING PROCEDURES

Flush all equipment with water before use. Stir Acrylastic™ UltraRoof™ 900 thoroughly until uniformly blended, but avoid excessive mixing to prevent air entrapment.

COLOR / TOPCOAT NOTES

Color: Black. When combined with UltraRoof™ 510, the system's reflectance can help reduce thermal-mechanical stress and cooling loads. An optional thin glaze coat of Sunshield 3800 can further increase reflectance and help keep the surface cleaner. For additional durability, roofing granules may be broadcast into the final coating application at 35-40 lbs per 100 square feet.

APPLICATION PROCEDURES

Apply a wet coat in even, parallel passes, overlapping each pass approximately 50% to avoid holidays, bare areas, and pinholes. Cross-roll or spray at a right angle to the first pass. Porous concrete will require more than one pass. On rough surfaces, back roll the first coat to ensure coating is pushed deep into the surface. Alternately, thin Acrylastic™ UltraRoof™ 900 with 1 quart per gallon to achieve better saturation. Over felt surfaces, thin the base coat to achieve maximum penetration. Apply one coat at 1 gallon per 100 square feet to achieve approximately 8.5 mils DFT, then allow 4-8 hours to dry.

RECOATING PROCEDURE

Install subsequent coats only when the previous coat is dry-through and firmly adhered. As a rule of thumb, when a thumb is pressed firmly to the coating, none of the coating should adhere to the thumb. Apply second, third, and fourth coats as required by the system specification. If surface and roof temperatures are between 50°F and 70°F, the material may be applied in one thick coat of 24 wet mils at 1.5 gallons per 100 square feet. Do not attempt thick coats above 70°F, as the coating may skin over on top while remaining wet beneath and cause blisters.

CLEANUP

Clean equipment with water, or with water and detergent, immediately after use. When applying polyester sheeting, work in small areas to ensure the coating remains wet enough to embed the sheets. Consult Davlin Coatings for special application procedures when the surface or air temperature exceeds 110°F.

DAVLIN ACRYLASTIC™ ULTRAROOF™ 900
High-performance elastomeric roof coating

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