



Acrylastic™ UltraRoof™ 510

Provides a highly reflective weatherproof membrane over new or existing roof surfaces

High Performance Waterproof Protective System

Acrylastic 510 is a bright white, ultra-tough, waterproofing, copolymer elastomeric coating

Davlin's proprietary Acrylastic 510 system has a proven track record since 1985

Works Great Over:

- Acrylastic UltraRoof 900
- Spray Polyurethane Foam
- 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

The Acrylastic system creates a permanent, liquid-applied roof

- Seamless
- Fully Adhered
- Watertight

The system's high solar reflectance will reduce thermal-mechanical stress and cooling loads. Optionally, a thin glaze coat of Sunshield 3800 will further boost the reflectance and keep the surface extra clean.

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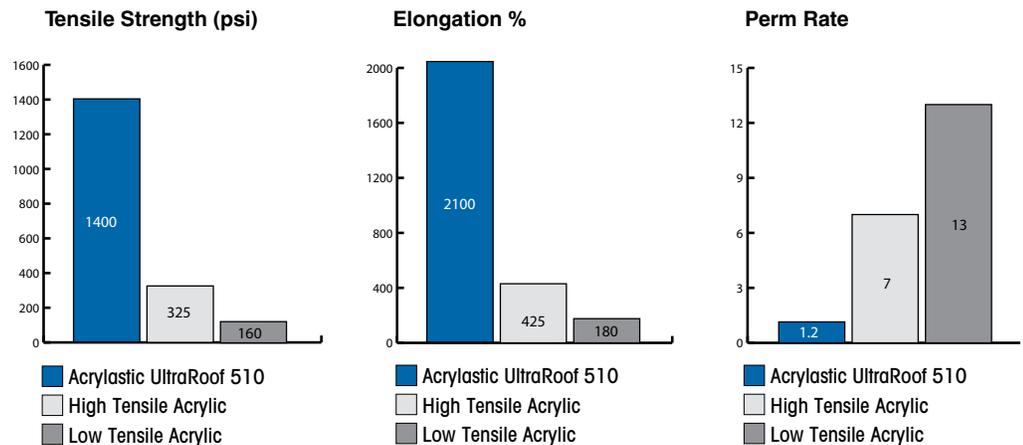
made in **USA**
designed by Davlin in **California**

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Cuts cooling costs

Dramatically reduces the cost of re-roofing—no tear-off necessary
Guarantees performance with Davlin's 5, 10, 15 and 20 year warranties

Performance



Save Money

- Light Weight—**Install Over the Existing Roof**
- Restores Existing Roof—**Avoid a Costly Tear-Off**
- Blocks UV—**Stop Roof Deterioration**
- Cures Fast—**Complete the Job Faster**
- More Coverage—**Waterproof at the Lowest Cost**
- Considered Maintenance—**Write-Off Coating This Year**

Due to its light weight, the system can be applied over existing roofs without having to tear them off. Acrylastic 510 has better coverage and waterproofs better than other acrylics or asphalt. During the spray application, the 510 cures quickly, allowing faster job completion.

Save Money with Tax Credits The IRS offers tax credits for reflective coating energy savings and solar power generation. Consult your tax expert for details.

Extend Your Roof's Waterproofing Life

- Tenacious Adhesion—**Stick Firmly to the Roof**
- High Tensile Strength—**Prevent Breaking**
- Low Perm Rate—**Keep Liquid Out**
- Breathes—**Let Water Vapor Pass**
- Resists Alkali—**Apply in Low-pH Environment**
- Resists Acid—**Withstand Acidic Rain**
- Resists Salts—**Apply Near the Ocean**

Acrylastic 510 creates superior waterproofing, forming a vapor barrier at 1.2 perms, 10 times better than most acrylics. Also, the 510 has tenacious adhesion and sticks like an epoxy glue.

Protect the Environment

- Restores Roof—**Avoid Landfill Waste**
- Few Anti-microbial Additives—**Keep Runoff Clean**
- No Solvents, Low VOC—**Avoid Harmful Fumes**
- Non-Toxic—**Preserve Building Health**

Acrylastic 510 is water-based for easy cleanup and low odor. It contains low VOCs to keep the air healthier for people to breathe. Because of the low perm rate and smooth top coats, Acrylastic systems require few anti-microbial agents. Also, Davlin products contain NO zinc additives and have a low erosion rate, which contributes to cleaner wastewater in our streams, rivers, lakes, and bays.



Earth Friendly Solutions
for over forty years

Acrylastic 510 is uniquely formulated for the protection of urethane foam roofs, asphalt emulsion, and roofs coated with Acrylastic 900. The 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 weathering ability and UV resistance. It also resists tearing when stretched. Because the 510 is a high-solids coating it has low shrinkage, allowing it to bridge hairline cracks and provide greater protection against new cracks forming. The Acrylastic 510 is easy to apply with airless, conventional air, roller, or brush. It is water-based for easy cleanup and low odor. The 510 offers superior resistance to fungus. Because it has excellent adhesion to the substrate, the 510 also resists peeling. Acrylastic 510 offers superior waterproofing but still breathes enough to allow trapped moisture vapor to pass through the film, while remaining impervious to exterior water penetration.

Caution: If the surface and roof temperatures 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 Acrylastic 510 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. The 510's unique resins allow it to dry faster, 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.

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Specifications

Property	Test Method	Result at 75°F
Tensile Strength	ASTM D2370, 1 in./min.	1400 psi
Tensile Elongation	ASTM D2370, 1 in./min.	2100% at break
Moisture Vapor Transmission	ASTM E96, Proc. B, 20 mils DFT	1.2 perms
Adhesion, foam	ASTM D413, Elcometer	350 psi (foam cohesive failure)
Shore A Hardness	ASTM D2240	75
Impact Resistance	U.S.B.R.	No Surface Cracks
Hailstone Resistance	Fed. Spec. TFC-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. TFC-555B, 4.4.7 min. 95 mph req.	No Weight Gain
Resistance to Ponded Water		No Blisters, No Film Degredation
Accelerated Weathering @ 5000 hrs	ASTM D822	No Chalking, Sheen Loss, Discoloration
Fugus Resistance	Fed. Std. 141 [6271], note 2	No Growth
Heat Stability	Fed. Std. 141 [6051], 160°F for 10 days	No Viscosity Change
Volatile Organic Compounds	US EPA Reference Method 24	6 g/l
Flash Point	SETA	>215°F
Viscosity (Stormer K.U.)	ASTM D562	100-120 KU
Solids by Volume	ASTM D2597	50% +/- 2
Solids by Weight	ASTM D2369	60% +/- 2
Dry Film Thickness (DFT)		8 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		White or Custom Color
Finish		Egg Shell

Installation: 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. Do not apply at temperatures below 45°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 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.

Polyurethane Foam: Repair all cracks and holes in foam by filling with Acryflex 1210 and imbedding 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.

Spray & Roller 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.

Clean equipment with water or water and detergent immediately after use. Apply 1 coat of Acrylastic 510 at 1 gallon per 100 square feet, DFT 8.5 mils. 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 lbs per 100 square feet.

Equipment: 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 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 to achieve specified DFT. Roller nap will vary according to texture of substrate, typically a 3/4 inch nap will work.