Roofseal 500S Acrylic Elastomeric Roof Coating

DAVLIN COATINGS

***Roofseal* 500S Acrylic Elastomeric Roof Coating is a bright white, ultra-tough, waterproofing, copolymer elastomeric coating. The system creates a liquid-applied roof that is permanent, seamless, fully-adhered, and watertight. Roofseal 500S's high solar reflectance will reduce thermal-mechanical stress and cooling loads.**

***Roofseal* 500S Acrylic Elastomeric Roof Coating was designed as a single-part water-based coating with the highest performance in coastal, temperate, humid, hot, and extreme alkaline environments. *Roofseal* 500S 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, *Roofseal* 500S has low shrinkage, allowing it to bridge hairline cracks and provide protection against new cracks forming.**

Roofseal 500S works great over:

- Mineral surface and smooth surface modified bitumen
- *Ultraroof* 900 Primer
- Spray polyurethane foam
- Smooth surface built-up roof (BUR)
- Mineral surface built-up roof (BUR)
- Granulated asphaltic surfaces
- Hot-mopped asphalt cutback
- Emulsion tar and gravel
- Metal and galvanized

Roofseal 500S Acrylic Elastomeric Roof Coating is one of

Davlin's Roof Coatings and Products

Seamless • Watertight • Fully Adhered

- ***Ultraroof* 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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Properties / Specifications

Tensile strength[1]**:** 1796 psi @ 75°F
Elongation[2]**:** 711% @75°F
Tear resistance[3]**:** 351.1
Viscosity[4]**:** 119 KU @ 75°F
Reflectivity (white): 0.83
Emissivity (white): 0.95
Permeance (US perms)[5]**:** 28.1
Heat stability (50°C - 10 days): Very slight syneresis, pass
Water swelling[6]**:** 10.25%
Weathering/UV resistance[7]**:** 2.49
Specific gravity: 1.35 @75°F
VOC[8]**:** 8 g/L
Solids by weight[9]**:** 66±2%
Solids by volume[10]**:** 52±2%
Flash point[11]**:** >215°F
Shelf life: 12 months (unopened, stored at 35-75°F)

1 ASTM D-2370
2 ASTM D-2370
3 ASTM D-624
4 ASTM D562
5 ASTM D-1653
6 ASTM D471
7 ASTM G-154
8 ASTM S-3960 / EPA Method 24
9 ASTM D-1644
10 ASTM D-2697
11 SETA

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Surface preparation: Remove all contaminants and loose material, such as dust, dirt, oil, silicone, release agents, wax, mildew, salt deposits, and chalky or loose coating. Check the entire roof and thoroughly powerwash it.
•*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 procedure: Stir *Roofseal* until uniformly blended, but avoid excessive mixing to prevent air entrapment. Flush all equipment with water before use. 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. Apply 1 coat of *Roofseal* at 1 gallon per 100 square feet, DFT 8 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 into the coating, none of the coating will adhere to the thumb. Apply second, third, and fourth coats, per system specifications. For additional durability, roofing granules may be broadcast into the final coating application at the rate of 35-40 ounces per 100 square feet.
Clean up: Clean all equipment with detergent and water.

Limitations: Do not apply to exterior below grade surfaces or when a vapor barrier is required. Do not thin. Ideal temperature for the application of *Roofseal* is between 50-80°F. When temperatures are above 80°F, thinner coats are recommended as a normal coat may skin over quickly on top while the coating underneath remains wet, resulting in blisters. Consult Davlin for special application procedures when the surface or air temperature is above 100°F. Do not apply at temperatures below 50°F nor during or 24 hours preceding inclement weather, including fog, mist, or freezing temperatures. Protect from freezing during shipment and storage. Do not store material below 50°F.

Application 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 11:1 Saturn pump or equivalent with air control cut-off, a material hose 3/4 inch IS minimum, and a heavy 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 substrate texture and thickness of coat; typically 3/4 inch nap will work.