

ACRYLASTIC BLEED BLOCKING PRIMER 510

Technical Data Sheet | Bleed Blocking Primer



TECHNICAL PRODUCT DATA

SINGLE-PART WATER-BASED | COPOLYMER ELASTOMERIC PRIMER | DAVLIN SILICONE SYSTEM

PRODUCT CHARACTERISTICS

ACRYLASTIC BLEED BLOCKING PRIMER 510 is a bright white, waterproofing, copolymer elastomeric coating formulated for properly prepared roof and architectural surfaces. It is recommended in Davlin silicone systems where bleed blocking, surface preparation, and durable adhesion are required.

The coating is designed to create a tough, flexible protective membrane while supporting long-term roof restoration performance.

RECOMMENDED OVER

Acrylic Ultraroot 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

MANUFACTURER INFORMATION

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BLEED-BLOCKING | WATER-BASED | ELASTOMERIC

Copolymer primer for properly prepared substrates

PRODUCT OVERVIEW

Bleed Blocking Primer 510 (BBP) is a single-part water-based coating engineered for coastal, temperate, humid, hot, and extreme alkaline environments. It forms a tough, long-lasting protective membrane that remains flexible over time under adverse conditions.

Its copolymer elastomeric resin formula produces a seamless, flexible, durable membrane with weatherability and UV resistance. As a high-solids coating, it has low shrinkage, allowing it to bridge hairline cracks and help protect against new cracks forming.

ROOF RESTORATION USE

Due to its light weight, Bleed Blocking Primer Roof Coating can be applied over existing roofs without having to tear them off. It provides coverage and waterproofing, forming a vapor barrier at 1.2 perms. During spray application, Bleed Blocking Primer 510 cures quickly to support faster job completion, with tenacious adhesion for roof restoration work.

SUITABLE SUBSTRATES

SPF

Mod. Bit

BUR

Asphalt

Gravel

Metal

50%±2

SOLIDS BY VOLUME

6 g/L

VOC

1.2

PERMS

1400

TENSILE PSI

2100%

ELONGATION

45-100°F

APP TEMP

APPLICATION SNAPSHOT

Apply over clean, dry, properly prepared surfaces. Stir thoroughly until uniformly blended, but avoid excessive mixing to prevent air entrapment. Do not thin. Apply a wet coat in even, parallel passes with 50% overlap to avoid holidays, bare areas, and pinholes. Cross-roll or spray at right angle to the first pass. Clean equipment with water or water and detergent immediately after use.

BLEED BLOCKING PRIMER 510

Seamless • Watertight • Fully Adhered

Recommended in Davlin Silicone Systems

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PROPERTIES / SPECIFICATIONS

Property	Typical Value
Tensile strength ¹	1400 psi
Tensile elongation ²	2100% at break
Moisture vapor transmission ³	1.2 perms
Adhesion, foam ⁴	350 psi (foam cohesive failure)
Shore A hardness ⁵	75
Impact resistance ⁶	No surface cracks
Hailstone resistance ⁷	No effect
Heat stability ⁸	No viscosity change
Resistance to wind-driven rain >100mph ⁹	No weight gain
Resistance to ponded water	No blisters, no film degradation
Accelerated weathering at 5000 hours ¹⁰	No chalking, no sheen loss, no discoloration
Fungus resistance ¹¹	No growth
VOC ¹²	6 g/L
Flash point ¹³	>215°F
Viscosity ¹⁴	100-120 KU
Solids by volume ¹⁵	50% ± 2%
Solids by weight ¹⁶	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	45-100°F
Color	White or custom color

TEST METHODS

1 ASTM D2370, 1 in/min	9 Fed Std TT-C-555B, 4.4.7 min, 95 mph req.
2 ASTM D2370, 1 in/min	10 ASTM D822
3 ASTM E96, Proc. B, 20 mils DFT	11 Fed Std 141 [6271], note 2
4 ASTM D413, Elcometer	12 US EPA reference method 24
5 ASTM D2240	13 SETA
6 U.S.B.R.	14 ASTM D562
7 Fed Spec TT-C-555B, GSA ex 1 8 Fed	15 ASTM D2597
Std 141 [6051], 160°F for 10 days	16 ASTM D2369



INSTALLATION / APPLICATION NOTES

LIMITATIONS

Do not apply at temperatures below 45°F nor during or 24 hours preceding inclement weather, including rain, fog, mist, or freezing temperatures. If the surface and roof temperature are between 50°F-70°F, Bleed Blocking Primer 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 thick coats above 70°F; rapid skinning may occur while the coating underneath remains wet, resulting in blisters. BBP resins allow faster drying in warm and windy weather. When applying polyester sheeting, apply coating in small areas so the coating remains wet enough to embed sheets. PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE. Do not store below 50°F. Consult Davlin for special application procedures when roof or air temperature exceeds 110°F.

SURFACE PREPARATION

Remove 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 powerwash it. Flush all equipment with water before use. Polyurethane foam: repair 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 manufacturer recommended time frame.

APPLICATION

Stir Bleed Blocking Primer 510 thoroughly until uniformly blended, avoiding 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 Bleed Blocking Primer 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 before 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: 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 **ACRYLASTIC BLEED BLOCKING PRIMER 510** 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 Bleed Blocking Primer beyond our control, no warranty or guarantee as to results is hereby made or implied by Davlin Coatings LLC.