

POLYBRITE® 75

HIGH TENSILE, PREMIUM ELASTOMERIC ROOF COATING

PRODUCT DESCRIPTION

PolyBrite 75 is a high tensile, superior grade water-based elastomeric coating. This proprietary formulation using 100% acrylic resins cures to form a seamless fluid applied roof membrane. PolyBrite 75 can be used as either a base or surface coat. This product has excellent adhesion to sprayed polyurethane foam (SPUF) and a variety of other construction and roofing substrates, and can exceed the expected tensile strength of typical acrylic roof coatings. This product provides excellent durability and dirt pickup resistance.

USES

- Approved over smooth and granulated BUR, SPUF, most metal roofs, modified bitumen membranes, concrete, exterior grade plywood rigid cover boards, and single-ply membranes. (May require a primer depending on age and condition.) A substrate adhesion test is recommended prior to product application.

FEATURES AND BENEFITS

- PolyBrite 75 has excellent exterior durability on roof exposure
- Better hail resistance than typical elastomeric roof coatings
- Flexible at low temperatures
- Excellent elongation at temperatures down to -15°F
- Excellent dirt pickup resistance
- UV resistance
- Excellent toughness to withstand foot traffic and routine rooftop maintenance activities
- High solar reflectivity, reducing roof surface temperatures and helping to prolong roof life and reduce energy costs
- Low toxicity and odor
- Easy application and simple cleanup with water

TYPICAL PHYSICAL PROPERTIES

TEST PROPERTY	TEST VALUE	TEST PROCEDURE
Viscosity (cP)	28,000–58,000	ASTM D2196
Solids Volume (%)	52 ± 2	ASTM D2697
Solids Weight (%)	62 ± 2	ASTM D1644
Elongation (%)	650 ± 50	ASTM D2370
Tensile Strength (psi)	570 ± 50	ASTM D2370
Hardness (Shore A)	72 ± 5	ASTM D2240
Permeance (perms)	6 ± 3	ASTM D1653
Water Swell (%)	12 ± 1	ASTM D471
Accelerated Weathering @ 1000 hr (pass/fail)	pass	ASTM D4798
Adhesion (psi)	pass	ASTM C794 / ASTM D903
Fungi Resistance (pass/fail)	pass	ASTM G21
Tear Resistance (lb/in)	120 ± 5	ASTM D624
Low Temperature Flexibility -26°C (1/2" Mandrel) (pass/fail)	pass	ASTM D522
VOC (gm/L)	< 50	Calculated



APPLICABLE STANDARDS

- Meets or exceeds the requirements of ASTM D6083-18, Type I and Type II Standard Specification for Liquid Applied Acrylic Coating Used in Roofing
- UL Classified - File #R14571
- ICC ESR-4038
- Meets the requirements of California Energy Commission (CEC) Title 24 Section 110.8 (i)4 (White only)
- CRRC Listed (White only)
- Texas Department of Insurance
- Florida Building Code
- Miami-Dade County Product Control Approved



PACKAGING

- 5 Gallon (18.9 Liters) Pail
- 55 Gallon (208 Liters) Drum
- 250 Gallon (946 Liters) Tote

COLORS

White, Kool Grey



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APPLICATION INSTRUCTIONS

Surface Preparation:

- All surfaces to receive coating must be clean, dry and free from any foreign matter such as dirt, oils, grease or other debris that could inhibit the adhesion capabilities of the newly installed products. Metal surfaces that display rusting or other oxidation, to be prepared with a grinder or wire brush as needed to remove surface contaminants.
- Visually inspect existing roof systems for conditions that may adversely affect adhesion or performance of newly installed products.
- Repair any metal and non-metal flashings, edges, drains, valleys and through-roof penetrations.
- Do not apply to wet or visibly damp surfaces, or surfaces previously covered with coal tar based products or Kynar® finishes.
- Concrete surfaces cured with wax/resin based compounds can inhibit adhesion.

Application:

- Stir well prior to application. To field tint this product, please use a water-based, exterior-grade colorant.
- Apply with high pressure sprayer for best appearance and coverage, however the product may be applied by roller or brush applications.
- Apply at 24 wet mils (1.5 gallons per 100 square feet) per coat. Typical application conditions require two coats at 24 wet mils per coat. To minimize potential voids or pinholes in coating application, apply second coat perpendicular to the first.
- Allow coating to dry overnight prior to applying second coat.
- Apply only when ambient temperatures are 50°F and rising. Cold weather could result in uneven application and improper curing of product. Do not apply if there is a threat of inclement weather within 24 hours of application.
- Do not thin product. Do not heat outside of container. Do not apply at temperatures greater than 120°F.
- Prior to using this product on new cap sheets (smooth or granulated), it is recommended to wait 30 days for weathering.


Spray Equipment:

PolyBrite 75 can be applied by conventional airless spray equipment designed for the purposes of field application of fluids, paints and coatings. The following minimums are recommended:

Pump: 1 gal/min output; 2,000 psi

Gun/Tip: Airless hand gun. Reversible tip with orifice sizes ranging from .027-.039.

Hose: Minimum inside diameter of high pressure nylon hose of 3/8". Refer to equipment manufacturer product guidelines.

 <p>CRRC COOL ROOF RATING COUNCIL® RAPID RATINGS</p>	Rated Product ID #: 0616-0029	
	Smooth	Rough
	Solar Reflectance	Initial / Aged
Thermal Emittance	0.86 / 0.79	0.82 / 0.80*
	0.89 / 0.88	0.91 / 0.90*
<p>The ratings above are subject to CRRC rating program conditions, requirements and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating requirements and limitations. For the purposes of a CRRC rating, a rough substrate is defined as a surface that is equally coarse or coarser than a new (i.e., unweathered) #11 granulated modified bitumen sheet.</p> <p>*CRRC Rapid Ratings: Interim laboratory-aged values that simulate naturally-aged values and will be replaced by the measured three-year naturally-aged values upon completion of the weathering process.</p>		

Solar Reflectance Index Smooth (SRI) – Initial: 109 • Aged: 98
Solar Reflectance Index Rough (SRI) – Initial: 102 • Aged: 100*

Storage and Cleaning:

- Shelf life is 18 months if stored in original unopened containers.
- All containers should be sealed when not in use.
- Keep from freezing.
- Store between 40°F and 100°F.
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Clean equipment and overspray with water.
- Clean hands with waterless hand cleaner.
- Application tools and equipment can be cleaned with lukewarm water and soap, followed by a rinse of isopropanol, acetone, or Simple Green®. Recirculate through lines and gun until residual coating is removed.
- DO NOT USE MINERAL SPIRITS, XYLENE, TOLUENE, OR VMP & NAPHTHA SOLVENTS.

For Professional Use Only - Keep out of the reach of children.

MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Phoenix, AZ
- Waco, TX
- Winter Haven, FL

CORPORATE HEADQUARTERS

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Questions? technical@polyglass.com

Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects that result in the material not complying with product specifications for a period of 12 months.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances. The product user, and not Polyglass, is responsible for determining the suitability and compatibility of our products for the user's intended use.

For the most current product data and warranty information, visit www.polyglass.us



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