

POLYBRITE® 70

PREMIUM GRADE ELASTOMERIC ROOF COATING

PRODUCT DESCRIPTION

PolyBrite 70 is a 100% acrylic, premium grade water-based elastomeric coating available in white or as tinted, which cures to form a seamless membrane when applied over the entire roof area. In addition to keeping the surface cool, PolyBrite 70 extends the life cycle of new and existing roof systems, providing protection from ultraviolet sun and other weather exposures.

USES


- Suitable for use on various conventional smooth and granulated BUR and polymer modified roof membranes with smooth and mineral surfacing, sprayed polyurethane foam, most metal roof systems, single-ply membranes (primers or special precautions may be required), concrete, exterior-grade plywood, rigid coverboards such as Securock®. A substrate adhesion test is recommended prior to product application.
- Suitable for use on cementitious stucco, EIFS and other masonry surfaces.
- PolyBrite 70 is available in a quick-set version (PolyBrite 70-QS).

FEATURES AND BENEFITS

- Extends the useful life of the roof.
- UV resistant.
- Decreases roof surface temperature, which can reduce energy costs.
- Offers high tensile strength and elongation.
- Resistant to dirt pick up and is fungal and algal resistant.
- Low VOC and non-flammable.

TYPICAL PHYSICAL PROPERTIES

TEST PROPERTY	TEST VALUE	TEST PROCEDURE
Viscosity (cP)	28,000 – 58,000	Brookfield® 4d/5 RPM/77°F
Solids Volume (%)	53 ± 2	ASTM D2697
Solids Weight (%)	63 ± 2	ASTM D1644
Elongation (%)	260 ± 30	ASTM D2370
Tensile Strength (psi)	285 ± 50	ASTM D2370
Permeance (perms)	10 ± 3	ASTM D1653
Water Swell (%)	6 ± 1	ASTM D471
Accelerated Weathering @ 1000 hr (pass/fail)	pass	ASTM D4798
Adhesion (pli)	pass	ASTM C794 / ASTM D903
Fungi Resistance (pass/fail)	pass	ASTM G21
Tear Resistance (lbf/in)	70 ± 5	ASTM D624
Low Temp Flexibility (1/2" mandrel @ -26°C) (pass/fail)	pass	ASTM D522
VOC (gm/L)	< 50	Calculated
Weight/gal (lb)	11 ± .5	ASTM D1475

 <p>CRRC COOL ROOF RATING COUNCIL</p>	Solar Reflectance	<u>Initial</u> 0.87	<u>Weathered</u> 0.75
	Thermal Emittance	0.90	0.90
	Rated Product ID Number	0616-0006	
	Licensed Seller ID Number	0616	
	Classification	Production Line	
<p>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p>			

Solar Reflectance Index (SRI) – Initial: 110 • Weathered: 93



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
- FM Approved
- ICC ESR-4038 (White and Kool Grey)
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof Requirements (White only)
- CRRC Listed (White only)
- ENERGY STAR® Certified (White only)
- Texas Department of Insurance
- Florida Building Code (White only)
- Miami-Dade County Product Control Approved



PACKAGING

- 4.75 Gallon (17.9 Liters) Pail
- 50 Gallon (189 Liters) Drum
- 275 Gallon (1039.5 Liters) Tote

COLORS

Standard colors are White and Kool Grey. Semi-standard and custom colors may also be available. Contact your sales representative for more information.



www.polyglass.us

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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 visible deficiencies such as splitting, blistering, and buckling with PolyBrite 72 Elastomeric Mastic or PolyBrite 73 Elastomeric Flashing Compound with StretchSpan Technology™ and PolyBrite Polyester Fabric.
- 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 pigment.
- 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 gallon 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.

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

Polyglass U.S.A., Inc.

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Customer Service: (800) 222-9782

Technical Service: (866) 802-8017

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

