

POLYBRITE® 70

PREMIUM GRADE ELASTOMERIC ROOF COATING

PRODUCT DESCRIPTION

PolyBrite 70 is a 100% acrylic, premium grade water-based elastomeric coating which cures to form a seamless membrane. PolyBrite 70 reduces roof temperatures, extends the life cycle performance of new and existing roof systems, provides protection from ultraviolet sunlight 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, 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).
- Primers or special precautions may be needed, consult Polyglass Technical Services.

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
- 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 ± 0.5	ASTM D1475



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 (White only)
- ICC ESR-4038
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof Requirements (White only)
- CRRC Listed (White only)
- Texas Department of Insurance
- Florida Building Code
- Miami-Dade County Product Control Approved
- Listed by California State Fire Marshal




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.



 <p>CRRC COOL ROOF RATING COUNCIL</p>	Rated Product ID #: 0616-0006		
		Smooth	Rough
	Solar Reflectance	Initial / Aged 0.87 / 0.75	Initial / Aged Not Rated
Thermal Emittance	0.90 / 0.90	Not Rated	
<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>			

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



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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 PolyFlash 1C 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 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. Proper preparation is required, contact Polyglass Technical Services for proper procedure.

Application:

- Stir well prior to application. To field tint this product, please use a water-based, exterior-grade pigment.
- Apply with airless 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 maximum) 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.
- Let the first coat dry a minimum of 4 hours prior to applying the second coat. Note: Weather conditions can prolong dry time.
- 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 or the temperature of the roof surface is over 140°F.
- Do not thin product. Do not heat outside of container. Do not apply at temperatures greater than 120°F.
- This product should not to be used where ponding water conditions exist.

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) 794-9659

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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