

POLYBRITE® 90.1

HIGH SOLIDS SILICONE ROOF COATING

PRODUCT DESCRIPTION

PolyBrite 90.1 is a premium grade high solids, moisture cure, liquid applied silicone coating which cures to form a seamless membrane when applied over the entire roof area. It also keeps the surface cool, providing protection from ultraviolet sun and other weather exposures.

USES


Designed for use on existing smooth surface BUR, granulated cap sheets, well adhered acrylic coatings, concrete, metal, sprayed in place polyurethane foam (SPUF) and various single-ply roofing membranes. Primer may be required. Contact Polyglass Technical Services for clarification of unusual surfaces or project conditions.

FEATURES AND BENEFITS

- Excellent resistance to weathering including: UV radiation, extreme temperatures, as well as rain, ice and snow.
- Extends the useful life of the roof.
- PolyBrite 90.1 can reduce energy costs by decreasing roof surface temperature.
- Fungal and algal resistant – even in high temperatures.
- Non-flammable and presents minimal hazard to the applicator or the environment.

TYPICAL PHYSICAL PROPERTIES

TEST PROPERTY	TEST VALUE	TEST PROCEDURE
Accelerated Weathering @ 5000 hr (pass/fail)	pass	ASTM D6694
Permeance (perms)	10.7	ASTM E96 (procedure B)
Elongation (%)	237	ASTM D412
Tensile Strength (psi)	247	ASTM D412
Hardness (Shore A)	87	ASTM D2240
Solids Volume (%)	92 +/-3	ASTM D2369
Temperature Stability Range (°F)	-35 to 212	
Tack-free time (hrs, subject to temp/humidity)	1-2	
VOC (gm/l)	<50	Calculated
Flash Point (°F)	141	PMCC
Initial Solar Reflectivity	89	ASTM C1549
Initial Thermal Emmissivity	90	ASTM C1371
SRI Value	113	Calculated

 <p>CRRC COOL ROOF RATING COUNCIL</p>		Initial	Weathered
	Solar Reflectance	0.89	0.73
	Thermal Emittance	0.90	0.88
	Rated Product ID Number	0616-0030	
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: 113 • Weathered: 90



APPLICABLE STANDARDS

- Meets or exceeds the requirements of ASTM D6694 Standard Specification For Liquid-Applied Silicone Coating.
- ENERGY STAR® Certified. (White only)
- CRRC Listed. (White only)
- NSF Protocol P151 - Health Effects from Rainwater Catchment System Components. See listing at www.nsf.org for application and cure instructions for rainwater catchment use.



PACKAGING

- 5 Gallon (18.9 Liters) Pail
- 55 Gallon (208.1 Liters) Drum

COLORS

Standard colors are White, Light Grey, Dark Grey, and Tan

POLYGLASS U.S.A., INC. MANUFACTURING FACILITIES

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

CORPORATE HEADQUARTERS

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Deerfield Beach, FL 33442

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(954) 233-1330

Customer Service: (800) 222-9782
Technical Service: (866) 802-8017

Questions? technical@polyglass.com

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.



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PONDING WATER

The chemistry of silicone, which Polyglass Silicone roof coatings are manufactured with, is not adversely affected by ponding water or prolonged rain exposure. Please be advised that good roofing practices, Building Codes and The National Roofing Contractors Association (NRCA) consider ponding water on any roof undesirable and recommend that all roof systems be designed and built to ensure positive drainage (See the NRCA Roofing and Waterproofing Manual and any applicable Code Ordinances).

APPLICATION INSTRUCTIONS

Surface Preparation:

- Surfaces to be coated with PolyBrite 90.1 must be properly prepared. All surfaces must be clean dry and free of loose particles.

Application:

- Stir well prior to application.
- PolyBrite 90.1 is recommended to be applied with high pressure sprayer for best appearance and coverage. It may also be applied by roller or brush applications.
- PolyBrite 90.1 can be applied in excess of 40 mils in a single coat without blistering, while maintaining maximum adhesion.

Application Equipment:

This product may be sprayed, brushed, or rolled. Due to the high viscosity of the material, a high-pressure airless paint pump capable of producing 3500 PSI should be used. The pump should have a minimum of 3 gallons per minute output. Always use components rated for pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of ¾" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip.

DO NOT USE hose that has been used for Acrylics or other waterborne coatings as the liner absorbs moisture and initiates the silicone cure process.

Storage and Cleaning:

- Shelf life is 24 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.

WARNING

Odors and Mists - Avoid breathing silicone odors and spray mists. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. Additional care must be taken to prevent roof top HVAC equipment from introducing silicone odors into interior areas during application.

Waste Disposal - Empty containers must be disposed of in accordance with local, state and federal regulations.

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

This product is not recommended for interior use.

Installers should exercise caution during spray processes to avoid falls caused by stepping into slippery coating. Installers should read and understand all technical and informational literature on this product, including the SDS, prior to use of the product.

Refer to safety data sheet (SDS) for specific data and handling of our products.

All data furnished refers to standard production using manufacturing 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

