

POLYBRITE® 95.1

SILICONE ROOF COATING

PRODUCT DESCRIPTION

PolyBrite 95.1 is a ready-to-use, solvent borne, moisture cure silicone roof coating available in white or as tinted, 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.
- PolyBrite 95.1 can reduce energy costs by decreasing roof surface temperature.
- Offers high tensile strength and elongation.
- Fungal and algal resistant – even in high temperatures.

TYPICAL PHYSICAL PROPERTIES

| TEST PROPERTY | TEST VALUE | TEST PROCEDURE |
|--|------------|------------------------|
| Accelerated Weathering @ 5000 hr (pass/fail) | pass | ASTM G154 |
| Permeance (perms) | 7.9 | ASTM E96 (procedure B) |
| Elongation (%) | 186 ± 10 | ASTM D412 |
| Tensile Strength (psi) | 551 ± 25 | ASTM D412 |
| Hardness (Shore A) | 70 | ASTM D2240 |
| Solids Weight (%) | 82 | ASTM D1644 |
| Solids Volume (%) | 69 ± 2 | ASTM D2697 |
| Temperature Stability Range (°F) | -35 – 212 | |
| Tack-free time (minutes, subject to temp/humidity) | 10 – 20 | |
| VOC (gm/l) | < 250 | Calculated |
| Initial Solar Reflectivity | 87 | ASTM C1549 |
| Initial Thermal Emissivity | 90 | ASTM C1371 |
| SRI Value | 110 | Calculated |

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).

| | | |
|---|---|---|
|  | Rated Product ID #: 0616-0031 | |
| | | |
| | | |
| | Smooth | Rough |
| Solar Reflectance | Initial / Aged 0.87 / 0.73 | Initial / Aged Not Rated |
| Thermal Emissivity | 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: 90



APPLICABLE STANDARDS

- Meets or exceeds the requirements of ASTM D6694 Standard Specification Liquid-Applied Silicone Coating.
- UL Classified – File #R14571
- FM Approved
- Meets the requirements of California Energy Commission (CEC) Title 24 Section 110.8 (j)4 (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.
- Texas Department of Insurance
- Florida Building Code
- Miami-Dade County Product Control Approved



PACKAGING

- 5 Gallon (18.9 Liters) Pail
- 50 Gallon (189 Liters) Drum

COLORS

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



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APPLICATION INSTRUCTIONS

Surface Preparation:

- Surfaces to be coated with PolyBrite 95.1 must be properly prepared. All surfaces must be clean dry and free of loose particles.

Application:

- Stir well prior to application. Caution: Due to the combustible nature of this product, do not use an electric mixer.
- PolyBrite 95.1 is recommended to be applied with high pressure sprayer for best appearance and coverage. It may also be applied by roller or brush applications.

Spray 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 3/4" 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:

- Product shelf life: 12 months from date of manufacture when stored between 40°F and 80°F.
- Cleanup of spray equipment containing uncured material may be accomplished by flushing with VM&P Naphtha or mineral spirits. PolyBrite 95.1 cures by reacting with moisture and should not be left in spray guns, pump equipment and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. Equipment without these components will transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections potentially causing an increase in operating pressure and material flow restriction.

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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