

POLYBRITE® 31 CB

CLIMATE BARRIER – HIGH TEMPERATURE ELASTOMERIC PROTECTIVE COATING

PRODUCT DESCRIPTION

PolyBrite 31 CB is a water-based Styrene Acrylic elastomeric coating that cures to form a seamless reflective barrier when applied over approved roofing substrates. PolyBrite 31 CB is specifically formulated for hot dry climates and extends the life cycle of new and existing roof systems by providing protection from ultraviolet sun and other weather conditions. Its highly reflective properties keep the roof surface cool resulting in reduced building energy cost in high temperate conditions.

PolyBrite 31 CB exhibits wet hide during installation and dry hide once cured. The product's flexibility allows it to expand and contract to accommodate normal roof movement, therefore avoiding surface damage. Exceptional product flow and leveling characteristics results in ease of application.

USES

- Protect and waterproof a variety of roof surfaces.
- Suitable for use on various conventional smooth and granulated BUR and granulated polymer modified roof membranes, most metal roof systems, PVC single-ply membranes (Primer may be required), concrete, rigid coverboards such as Dens-Deck® and Securock®. A substrate adhesion test is recommended prior to product application.
- Suitable for use on cementitious stucco, EIFS and other masonry surfaces.

FEATURES AND BENEFITS

- Easy application due to exceptional product flow.
- Superior wet and dry hide.
- Offers excellent resistance to extended exposure to solar ultraviolet energy.
- By decreasing roof surface temperature, PolyBrite 31 CB can reduce energy costs.
- Initial Solar Reflectance: 0.87
- Initial Thermal Emittance: 0.90
- Initial SRI: 110
- Offers good tensile strength and elongation.
- Resistant to dirt pick up.
- Fungal and algal resistant – even in high temperatures.
- Low VOC, non-flammable and presents minimal hazard to the applicator or the environment.

TYPICAL PHYSICAL PROPERTIES

TEST PROPERTY	TEST VALUE	TEST PROCEDURE
Accelerated Weathering @ 1000 hr. (pass/fail)	Pass	ASTM D4798
Permeance (US perms)	< 20	ASTM D1653
Fungi Resistance (Pass/Fail)	Pass	ASTM G21
Solids Weight (%)	62 ± 2	ASTM D1644
Solids Volume (%)	52 ± 2	ASTM D2697
Viscosity (cPs)	48,000 Nominal	ASTM D2196 Brookfield®4d/5RPM/77°F
Weight Per Gallon (lb)	11.6 ± 0.3	ASTM D1475
VOC (g/l)	< 50	Calculated
Flammability	N/A Water Based	
Application Types	Spray/Brush/Roll	
Application Temperature	50°F and Rising	

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.
- Existing roof systems to be visually inspected for conditions that may adversely affect adhesion of performance of newly installed products. Repair any visible deficiencies such as



APPLICABLE STANDARDS

- Can be used to comply with 2016 Title 24 Part 6 Cool Roof Requirements – Pending (White only)
- CRRC Listed – Pending (White only)

PACKAGING

- 5 Gallon (18.9 Liters) Pail
- 55 Gallon (208.1 Liters) Drum
- 250 Gallons (945 Liters) Tote

COLORS

White, Kool Grey and Tan



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splitting, blistering, and buckling.

- Visually inspect all metal and non-metal flashings, edges, drains, valleys and through-roof penetrations and repair as needed by project conditions.
- Do not apply to wet or visibly damp surfaces or surfaces previously covered with coal tar-based products or Kynar® finishes without proper preparation.
- Concrete surfaces cured with wax/resin-based compounds can inhibit adhesion.

Application:

- Stir well prior to application.
- PolyBrite 31 CB may be applied by high pressure spray, roller, or brush application methods.
- Apply PolyBrite 31 CB at 24 wet mils (1.5 gallon per 100 ft²) per coat. Typical application conditions require PolyBrite 31 CB be applied cross hatch in two coats at 24 wet mils per coat.
- Allow coating to dry overnight prior to applying second coat.
- To minimize potential voids or pinholes in coating application, apply second coat perpendicular to the first.
- 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.

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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