

# POLYBRITE® 33 CS

## CLIMATE SHIELD – HIGH TEMPERATURE ELASTOMERIC PROTECTIVE COATING

### PRODUCT DESCRIPTION

PolyBrite 33 CS is a water-based 100% Acrylic elastomeric coating that cures to form a seamless shield when applied over approved roofing substrates. PolyBrite 33 CS is specifically formulated for hot dry climates. Due to its high reflectance properties PolyBrite 33 CS protects against damaging ultraviolet rays, keeping the roof surface cool in high temperatures, resulting in reduced building energy costs.

Specially formulated to exhibit superior wet hide during installation and dry hide once cured. Exceptional product flow and leveling characteristics results in ease of application. PolyBrite 33 CS exceeds the minimum requirements of ASTM D6083 Type I and II forming a durable protective layer extending the life of the roofing system assembly.

### USES

- Suitable for use on various conventional smooth and granulated BUR and polymer modified roof membranes with smooth mineral surfacing, most metal roof systems, single ply membranes (primers or special precautions may be required), concrete, exterior grade plywood, rigid coverboards such as Dens-Deck® and Securock® and SPUF. 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.
- UV resistant.
- By decreasing roof surface temperature, PolyBrite 33 CS can reduce energy costs.
- Initial Solar Reflectance: 0.87
- Initial Thermal Emittance: 0.9
- Initial SRI: 110
- Offers excellent tensile strength and elongation.
- 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 – Compliant to ASTM D6083 Type I and II

TEST PROPERTY	TEST VALUE	TEST PROCEDURE
Accelerated Weathering @ 1000 hr. (Pass/Fail)	Pass	ASTM D4798
Low Temp Flexibility (1/2" mandrel@-26°F)	Pass	ASTM D522B
Fungi Resistance (Pass/Fail)	Pass	ASTM G21
Adhesion (pli) (Dry)	Pass	ASTM D6083
Solids Weight (%)	66 ± 2	ASTM D1644
Solids Volume (%)	55 ± 2	ASTM D2697
Viscosity (cPs)	65,000 Nominal	ASTM D2196 Brookfield®4d/5RPM/77°F
Tear Resistance (lb./in)	TBD	ASTM D624
Weight Per Gallon	11.8 ± 0.3	ASTM D1475
Water Swell (%)	12 ± 1	ASTM D371
VOC (g/l)	< 50	Calculated
Flammability	N/A Water Based	
Application Types	Spray/Brush/Roll	
Application Temperature	50°F and Rising	



### APPLICABLE STANDARDS

- Meets or exceeds the requirements of ASTM D6083 (Type I and Type II) Standard Specification for Liquid Applied Acrylic Coating Used in Roofing.
- UL Classified – Pending
- FM Approved – Pending
- ICC – Pending
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof Requirements – Pending (White only)
- CRRC Listed – Pending (White only)
- Texas Department of Insurance – Pending
- Florida Building Code – Pending
- Miami-Dade County Product Control Approval – Pending



### 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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### 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 of performance of newly installed products. Repair any visible deficiencies such as splitting, blistering, and buckling with PolyBrite 72 or PolyBrite 73 Elastomeric Mastic and PolyBrite Polyester Fabric.
- Repair 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 without proper preparation.
- 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 ft<sup>2</sup>) 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.
- 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

Polyglass U.S.A., Inc.  
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**Questions?** [technical@polyglass.com](mailto: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](http://www.polyglass.us)**