

PG 700

HIGH QUALITY ELASTOMERIC ROOF COATING



PRODUCT DESCRIPTION

PG 700 is a high quality water-based elastomeric coating available in white or as tinted, which cures to form a seamless membrane when applied over the entire roof area. PG 700 offers the unique ability to extend the life cycle of new and existing roof systems, in addition to keeping the surface cool, providing protection from ultraviolet sun and other weather exposures.

USES

- Protect and seal a variety of roof surfaces.
- Suitable for use on various conventional BUR and polymer modified roof membranes with smooth and mineral surfacing, most metal roof systems, Thermoplastic and Thermoset single-ply membranes, concrete, exterior-grade plywood, rigid coverboards such as Dens-Deck® and Securock®. Use to certain substrates may be limited or require additional work depending on substrate or project conditions.
- Suitable for use on cementitious stucco, EIFS and other masonry surfaces.
- Application of PG 800 emulsion is a good foundation for this and other Polyglass elastomeric coatings.

FEATURES AND BENEFITS

- PG 700 is compliant with the stringent standards of Cool Roof Rating Council (CRRC®) and California Title 24 (white color only).
- Extends the useful life of the roof.
- Offers excellent resistance to extended exposure to solar ultraviolet energy.
- By decreasing roof surface temperature, PG 700 can reduce energy costs.
- Offers high 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 D 4798 |
| Permeance (perms) | 39 (wet) 18 (dry) | ASTM D 1653 |
| Fungi Resistance (pass/fail) | pass | ASTM G 21 |
| Elongation (%) | 200 +/-25 | ASTM D 2370 |
| Tensile Strength (psi) | 350 +/-50 | ASTM D 2370 |
| Flexibility @ 0°F mandrel (pass/fail) | pass | ASTM D 522B |
| Viscosity (cP) | 28,000 - 58,000 | Brookfield® 4d/5 RPM/77° F |
| Weight/gal (lb) | 11 +/- .5 | ASTM D 2939 |
| Solids Weight (%) | 66 | ASTM D 1644 |
| Solids Volume (%) | 53 | ASTM D 2697 |
| VOC (gm/L) | <50 | Std method |
| pH (rating) | >9 | Std method |
| Flash Point (°F) | >212 | PMCC |

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.

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APPLICABLE STANDARDS

- Meets or exceeds the requirements of ASTM D-6083 Standard Specification for Liquid Applied Acrylic Coating Used in Roofing.
- Meets Cool Roof Rating Council standards for solar reflectance and thermal emittance (white only)
- California Title 24 Compliant (white only)
- Energy Star® Rated (white only)
- Miami Dade County Approved



PACKAGING

- 4.75 Gallon (18.0 Liters) Pail
- 50 Gallon (189.3 Liters) Drum
- 275 Gallon (1041 Liters) Tote

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

- Fernley, NV
- Hazleton, PA
- Winter Haven, FL

CORPORATE HEADQUARTERS

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| CRRC COOL ROOF RATING COUNCIL | Initial | | Weathered | | |
|-------------------------------------|-------------------------------|-----------------------|-----------|--|--|
| | Solar Reflectance | *0.87 | 0.75 | | |
| | Thermal Emittance | *0.90 | 0.90 | | |
| | Solar Reflectance Index (SRI) | *110 | 93 | | |
| | Rated Product ID Number | 0616-0007 | | | |
| | Licensed Seller ID Number | 0616 | | | |
| | Classification | Field Applied Coating | | | |

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.
Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Council procedures.
* Reported values are applicable to White color only.



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- Metal surfaces that display rusting or other oxidation, to be prepared with a grinder or wire brush as needed to remove surface contaminants.
- Existing roof systems to be visually inspected for conditions that may adversely affect adhesion or performance of newly installed products. Repair any visible deficiencies such as splitting, blistering, and buckling with Polybrite 72 Elastomeric Mastic and Polybrite Polyester Fabric..
- 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.
- 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.
- PG 700 is recommended to be applied with high pressure sprayer for best appearance and coverage, however may be applied by roller or brush applications.
- Apply PG 700 at 24 wet mils (1.5 gallon per 100 square feet) per coat. Typical application conditions require PG 700 be applied 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.
- When coating over newly-applied asphalt emulsion, proceed as soon as the emulsion has cured, normally 1 to 5 days (follow instructions for PG 800 Asphalt Emulsion).
- Prior to using this product on new cap sheets (smooth or granulated), it is recommended to wait 30 days for weathering. Newly applied PG 800 Asphalt Emulsion can typically be coated once emulsion has cured, usually 1 to 5 days depending on weather and rate of emulsion application.

Storage and Cleaning:

- Product shelf life: Typically 18 months from date of manufacture when properly stored.
- Do not store at temperatures greater than 120°F.
- Store 24 hours at room temperature prior to application.
- Observe normal safeguards for storing and handling of this product prior to and during application.
- Do not allow product to freeze. Discard if any degree of freezing would occur.
- Keep containers covered when not in use.
- Clean equipment and overspray with water.
- Clean hands with waterless hand cleaner.

WARNING

Personal Protection - Irritation may result from prolonged or repeated contact with skin. Wear chemical resistant gloves, protective goggles and protective clothing, if needed.

Eye Contact - Rinse immediately with clean water for 15 minutes and seek medical advice.

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.

Refer to material safety data sheet (MSDS) 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.com

