

# POLYFRESKO® G SA FR

## HIGHLY REFLECTIVE WHITE APP (PLASTOMERIC) CAP SHEET

### PRODUCT DESCRIPTION

Polyfresko G SA FR is a self-adhered Atactic Polypropylene (APP) granulated cap sheet with fire retardant additives for use in low-slope roofing. Polyfresko G SA FR is manufactured using Polyglass' patented ADESO® Dual-Compound Self-Adhered Technology. With this technology, a "true" plastomeric compound is applied to the top of the membrane and an aggressive, proprietary, self-adhesive compound is applied to the bottom. Polyfresko G SA FR is constructed with a superior non-woven polyester reinforcement that provides flexibility and dimensional stability as well as excellent tear and puncture resistance.

Featuring patented CURE Technology®, Polyfresko G SA FR has a highly reflective granule surface which meets, or exceeds most standards for cool roofing. CURE Technology features an innovative thin film technology attributing to exceptional granule retention, minimal staining, scuff resistance and UV stabilization for long-term durability and performance.

Polyfresko G SA FR also features SEAllap® ULTRA, a granule-free side lap with self-adhesive compound, granule free end lap. Each of these patented features provide for greater ease of application as well as improved long-term performance.

Polyfresko G SA FR can be used as part of a Polyglass warranted multi-ply system, when combined with Elastoflex SA V Plus or other approved Polyglass base sheets.



### TYPICAL APPLICATIONS

- Self-adhered cap sheet and flashing membrane on standard new construction and re-roofing applications.
- Self-adhered directly over an acceptable substrate or as part of a multi-ply system.
- Job sites with limited access for special installation equipment or where using a propane torch, hot asphalt or adhesives is undesirable.

### FEATURES AND BENEFITS

- Suitable for most cool roof specifications; Solar Reflectance Index (SRI) Initial: 96, Aged: 83.
- Demonstrated to maintain exceptional reflectivity over time.
- Superior polyester mat for excellent tear and puncture resistance.
- Resistance to discoloration and scuffing.
- Exceptional granule retention; 0.09 g loss vs. ASTM max 2.0 g.
- FASTlap granule free end lap provides faster, stronger seams.
- SEAllap ULTRA granule free selvage edge with self-adhesive compound for an immediate, long-term monolithic seam.

### TECHNICAL DESCRIPTION\*

| Physical Properties                    | ASTM Method | ASTM Value             | Typical Performance   |
|--|-------------|------------------------|---|
| Peak Load at 73°F [23°C]               | D5147       | 50 lbf/in. [8.8 kN/m]  | 113 lbf/in. [19.8 kN/m] - MD<br>58 lbf/in. [10.2 kN/m] - XMD  |
| Elongation at Peak Load at 73°F [23°C] | D5147       | 23%                    | 52% - MD<br>55% - XMD   |
| Peak Load at 0°F [-18°C]               | D5147       | 60 lbf/in. [10.5 kN/m] | 144 lbf/in. [25.2 kN/m] - MD<br>104 lbf/in. [18.2 kN/m] - XMD |
| Elongation at Peak Load at 0°F [-18°C] | D5147       | 10%                    | 36% - MD<br>35% - XMD   |
| Ultimate Elongation at 73°F [23°C]     | D5147       | 30%                    | 59% - MD<br>59% - XMD   |
| Tear Strength at 73°F [23°C]           | D5147       | 70 lbf [311 N]         | 137 lbf [609 N] - MD<br>101 lbf [449 N] - XMD                 |
| Low Temperature Flexibility [maximum]  | D5147       | 32°F [0°C]             | Pass  |
| Dimensional Stability [maximum]        | D5147       | 1%                     | 0.6% - MD<br>0.4% - XMD                                       |
| Compound Stability [maximum]           | D5147       | 230°F [110°C]          | Pass  |
| Granule Embedment [maximum loss]       | D5147       | 2 g                    | 0.09 g  |

\*The properties in this table are "as manufactured" unless otherwise noted

### AVAILABLE COLORS

Highly Reflective White



### PRODUCT DATA\*\*

|                       |   |
|-----------------------|---|
| Net Coverage (Approx) | 100 ft <sup>2</sup> (9.3 m <sup>2</sup> ) |
| Weight (Approx)       | 90 lbs (41 kg)                            |
| Thickness (Nominal)   | 160 mils (4.0 mm)                         |
| Roll Size             | 32'10" x 39 3/8" (10 m x 1 m)             |
| Rolls/Pallet          | 20 (boxed); 25 (wrapped)                  |

\*\*All values are nominal at time of manufacturing

### APPLICABLE STANDARDS

- ASTM D6222 Type I, Grade G
- UL Classified
- FM Approved
- ICC ESR-2018
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance
- CRRC Listed
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof requirements.



### PRODUCT CODES

- PFSAF35KC (box packaging)
- PFSAF35KCC (wrap packaging)



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### APPLICATION INSTRUCTIONS

Polyfresko G SA FR is intended to be used as the primary weathering surface in new or re-roof applications. Polyfresko G SA FR is to be applied as the uppermost layer of a multi-ply roof system over a compatible Polyglass base or interply membrane. Polyfresko G SA FR may also be applied directly to approved wood deck substrates of non-occupied spaces such as carports, sheds, canopies, etc. For additional substrate requirements and information refer to "Suitable Substrates for Self-Adhered Membranes" Polyglass Technical Bulletin.

- Apply Polyfresko G SA FR membrane only in dry weather and when air and surface temperatures are 40°F (5°C) and rising.
- Apply over clean, dry, dust and debris-free substrates. Prime required substrates prior to application with PG 100 Fast-Drying Asphalt Primer or alternative ASTM D41 primers as approved by Polyglass.
- Concrete or steel decks shall be designed with proper expansion devices.
- Wood decks shall have all joints cross blocked and/or properly supported.
- Installation of Polyfresko G SA FR should not adversely affect the ventilation of existing construction.
- Do not apply directly to existing shingles or other unacceptable roof coverings.
- While installing Polyfresko G SA FR:
  1. Start at the low point of the roof.
  2. Unroll the material and allow to relax.
  3. Start by removing the first 18–24" of release film.
  4. Press the membrane into place with firm and even pressure. Roll the edges with a silicone hand roller to ensure complete adhesion.
  5. Gradually remove the remaining release film applying pressure from the center to the edges as you go.
  6. Position successive rolls using the 5" FASTlap at the endlap and 3" SEAllap granule free side lap. Ensure a watertight seal.
  7. After installation of the entire roof surface, roll with an 75# split-face linoleum roller. Take care on sloped roofs by securing the roller and applicator with the appropriate safety equipment.
- Details and flashing may be installed with a hot air welder or with PG 500 Roof Cement or PolyPlus 50 Premium Modified Wet/Dry Cement. Refer to manufacturer's published details for proper design and installation of detail work.
- For detailed drawings and recommended installation procedures of typical roof segments, such as drip edge and T-joint conditions, please refer to our website at, [www.polyglass.us](http://www.polyglass.us).

|   |                                       |             |             |
|---|---------------------------------------|-------------|-------------|
|    | <b>Rated Product ID #: 0616-0011a</b> |             |             |
|   | <b>Initial</b>                        | <b>Aged</b> |             |
|   | <b>Solar Reflectance</b>              | <b>0.77</b> | <b>0.68</b> |
|   | <b>Thermal Emittance</b>              | <b>0.90</b> | <b>0.88</b> |
| The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit <a href="http://coolroofs.org">coolroofs.org</a> for important information and disclaimers about CRRC rating conditions, requirements, and limitations. |                                       |             |             |

**Solar Reflectance Index (SRI) – Initial: 96 • Aged: 83**

### MANUFACTURING FACILITIES

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

### CORPORATE HEADQUARTERS

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Product Disclaimer: Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 5 years.

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.

Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data and warranty information, visit [www.polyglass.us](http://www.polyglass.us)

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