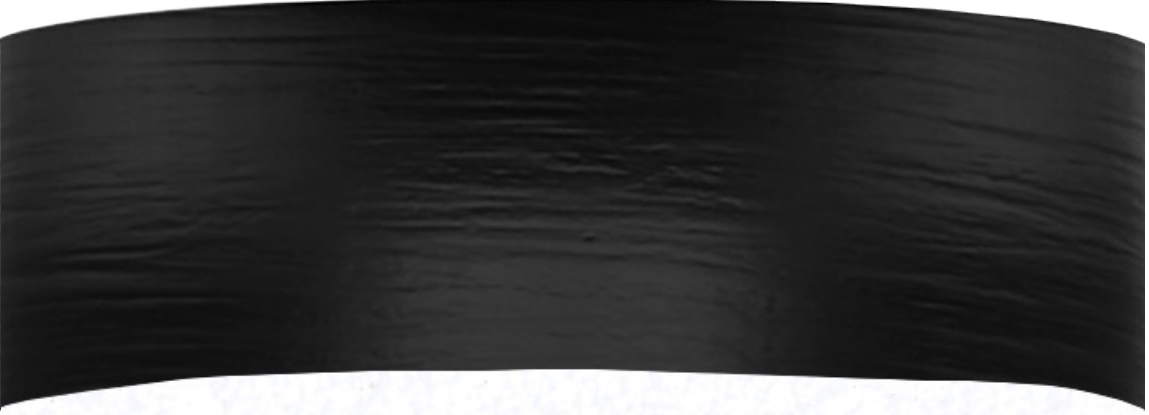


POLYGLASS®

MAPEI GROUP

POLYFRESKO®

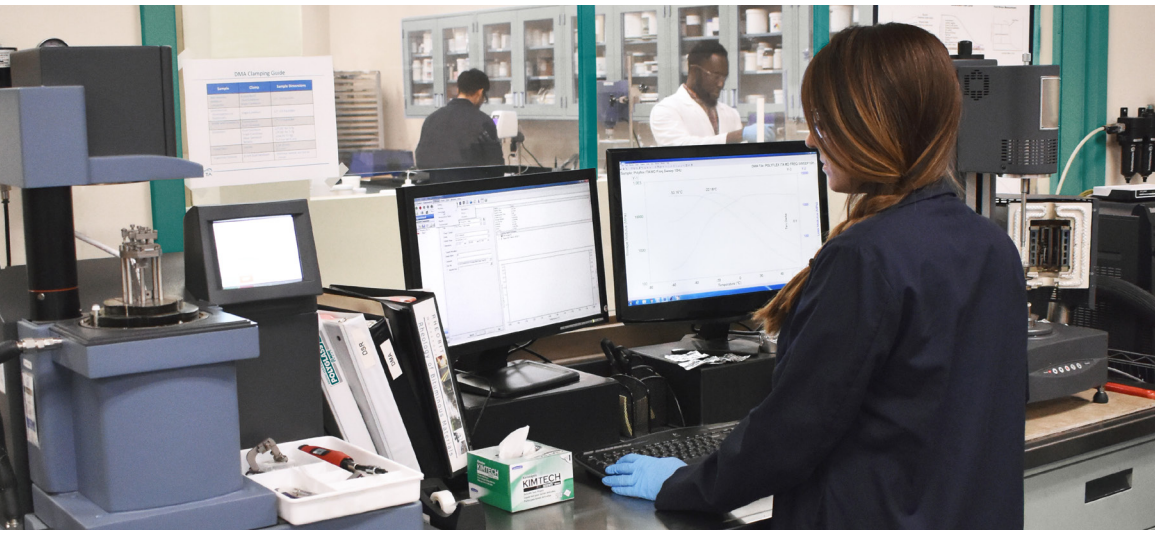
# HIGHLY REFLECTIVE WHITE MODIFIED BITUMEN ROOFING MEMBRANES

# About Polyglass

Polyglass is an ISO 9001:2015 Certified, leading manufacturer of modified bitumen roofing and waterproofing membranes and roof coatings for low- and steep-slope applications with over 30 years of experience in North America. Committed to adding value through innovation, Polyglass utilizes the most technologically advanced manufacturing process in the industry with six state-of-the-art manufacturing facilities- five in North America and one in Italy which services all of Europe.

Since 2008, Polyglass has been a part of the Mapei® Group, a multi-billion dollar manufacturer in the building industry with over 31 research centers and more than 83 production facilities in 36 countries.

Polyglass prides itself in innovative and quality roofing products which exceed the needs and expectations of its customers all around the world. This commitment is demonstrated daily by the people that work for Polyglass where the customers' needs always come first.




# Research & Development

As a leading company in the modified bitumen membrane waterproofing and roofing products category, Polyglass has consistently innovated throughout its history. Our patent portfolio includes but not limited to: "ADESO®" - a groundbreaking self-adhered dual-compound membrane, "SEALLap® ULTRA" - an enhanced bonding method for self-adhered membranes, and "Polyfresko®" an unsurpassed energy savings membrane that delivers exceptional solar reflectance.

Our multidisciplinary Research & Development team is comprised of Ph.Ds., chemists, material scientists and chemical, civil and mechanical engineers that interact with other departments to play a critical role in the development of new products, processes, innovations and ideas. R&D contributes to achieving our company's goals through the optimization of the manufacturing process, by implementing cost effective and improved installation techniques and by controlling the selection and approval of raw materials ensuring our customers receive quality products at an exceptional value that meet and exceed environmental, health and safety regulations.

The Research & Development department embraces and understands the many difficulties of meeting the demands of the building and waterproofing industries and is well equipped to meet these future challenges. Our research laboratories are equipped with cutting edge analytical and physical testing equipment to push the boundaries in the development of novel and innovative products and technologies that better serve our customer's needs and expectations.

POLYFRESKO®

Highly Reflective White Modified Bitumen Roofing Membrane

## Why Use Polyglass Polyfresko Membranes?

Featuring patented CURE Technology®, Polyfresko® G cap sheets have a highly reflective granule surface which meets, or exceeds most standards for cool roofing. CURE features an innovative thin film technology attributing to Polyfresko's exceptional granule retention, minimal staining, scuff resistance and UV stabilization for long-term durability and performance. Polyfresko G cap sheets are constructed with a superior non-woven polyester reinforcement that provides flexibility and dimensional stability as well as excellent tear and puncture resistance. Available as an APP or SBS membrane, and two installation methods to best suit your application:

- Self-Adhered
- Heat Welded or Torch Applied

Kool Roof Solutions™

## Multi-Ply Polyfresko System Advantages:

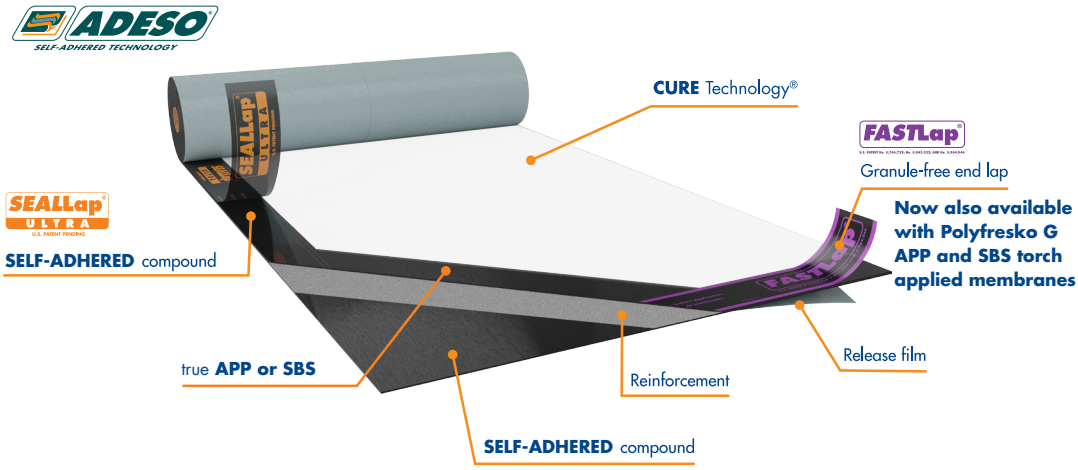
- Premium membrane construction for superior durability and puncture resistance
- Featuring patented CURE Technology®
- Demonstrated to maintain exceptional reflectivity over time:
  Solar Reflectance Index (SRI) Initial: 96, 3-Year Weathered: 83
- Energy efficient, eligible for LEED® points as part of qualified cool roof system
- Exceptional granule retention;
  0.09g (APP) or 0.11g (SBS) loss vs. ASTM maximum 2.0g
- Minimal "torch scorch" for improved aesthetics, stain-free and will not discolor over time
- Polyglass Detail & Repair Finish accessory specifically designed for application to membrane lap areas, details and repair; displays the same reflective properties and appearance of Polyfresko membranes

Now featuring patented FASTLap® granule-free end lap on Polyfresko G torch applied membranes - including FR + HP configurations

# Polyfresko Membranes with ADESO® Self-Adhered Technology

ADESO Technology revolutionized the modified bitumen industry by manufacturing dual-compound self-adhered membranes using a true APP or SBS formulation on the top weathering side and an aggressive self-adhered formulation on the bottom side of the reinforcement.

ADESO Technology, and other innovative Polyglass patented technologies featured in our self-adhered membranes provide for overall superior product and roof system performance. Polyfresko self-adhered membranes feature SEALLap® ULTRA, a side lap with self-adhesive compound for an instant bond, tested stronger than all other application methods. Polyglass' self-adhered granulated cap sheets also feature FASTLap®, a patented granule-free end lap. Both SEALLap ULTRA and FASTLap are protected by a removable film for easy installation.




CURE technology®

## What is CURE Technology?

CURE Technology is a patented thin film technology incorporated during the manufacturing process. The result is a modified bitumen membrane with greatly enhanced performance benefits without compromising the ease of installation and overall value expected from Polyglass products.

### Stain-Free

Minimal staining on the surface of the cap sheet, significantly resists discoloration. Maintains its color integrity, even over time.

### Granule Adhesion

Superior granule adhesion, minimum loss of granules when exposed to foot traffic and other elements.

### Reflectivity

Initial reflectivity ratings above industry standards, maintains reflectivity performance over time.

### Thin Film Technology

Minimal surface finishing while maintaining granule appearance, increased durability and improved reflectivity.

CRRC COOL ROOF RATING COUNCIL®

| Rated Product ID #: 0616-0011a | | |
|---|---|---|
| | Initial | Aged |
| Solar Reflectance | 0.77 | 0.68 |
| Thermal Emittance | 0.90 | 0.88 |

The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating conditions, requirements, and limitations.

Solar Reflectance Index (SRI) Initial: 96 Weathered: 83

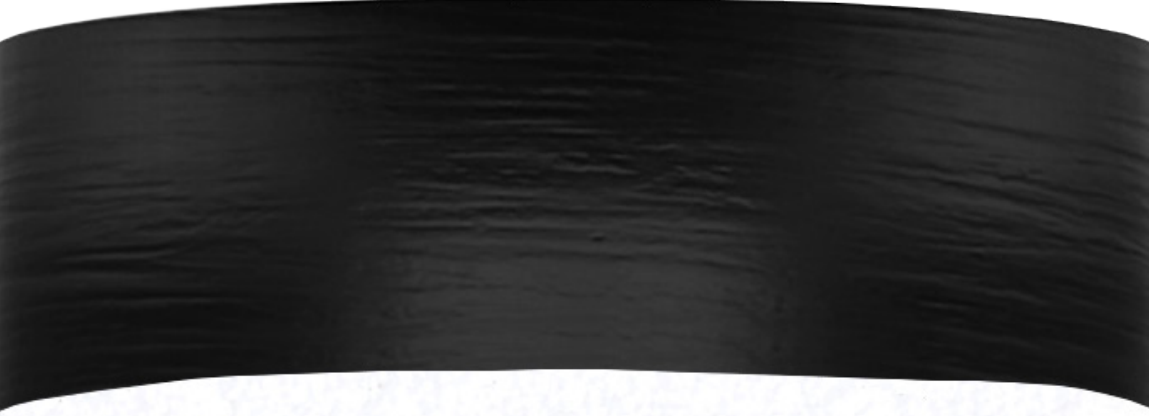
## Warranty Protection

We stand behind our products with the most reliable warranties in the industry. Our warranty programs provide extended protection, assuring the optimum system performance is guaranteed. We continue to safeguard our customers' assets after the installation with our warranty support.

***Polyglass Polyfresko membranes meet or exceed industry code approvals*:***

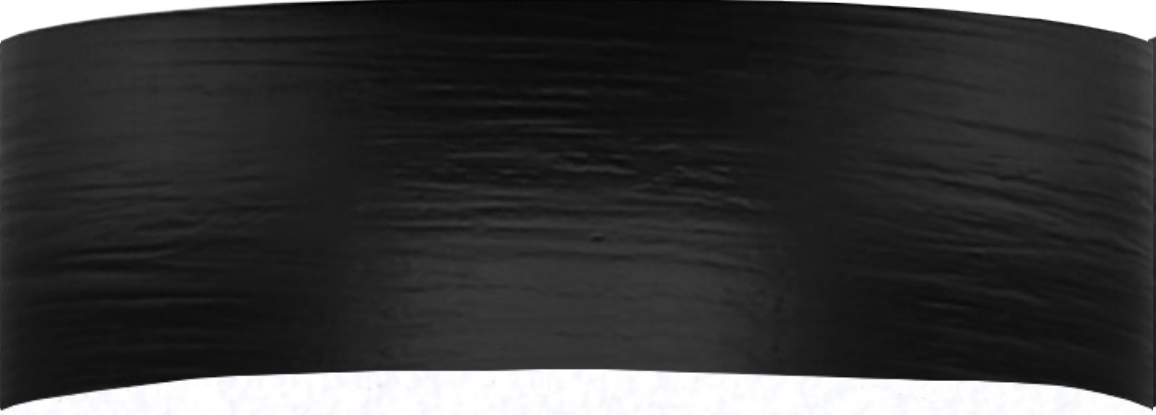
- ASTM
- UL Classified
- FM Approved
- ICC-ES
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance
- Can be used to comply with 2016 Title 24 Part 6 Cool Roof Requirements.
- CRRC Listed

*See product Data Sheets for product-specific approvals.



| PRODUCT NAME | REINFORCEMENT | ASTM | NOMINAL THICKNESS | SELF-ADHERED | HEAT WELD |
|---|---|---|---|---|---|
| **APP** | | | | | |
| Polyfresko® G | Polyester | D6222 Type I | 165 mils (4.2 mm) | | ✓ |
| Polyfresko® G FR | Polyester | D6222 Type I | 165 mils (4.2 mm) | | ✓ |
| Polyfresko® G HP FR | Polyester | D6222 Type II | 173 mils (4.4 mm) | | ✓ |
| Polyfresko® G SA | Polyester | D6222 Type I Table 1 | 160 mils (4.0 mm) | ✓ | |
| Polyfresko® G SA FR | Polyester | D6222 Type I Table 1 | 160 mils (4.0 mm) | ✓ | |
| **SBS** | | | | | |
| Polyfresko® G SBS | Polyester | D6164 Type I | 160 mils (4.0 mm) | | ✓ |
| Polyfresko® G SBS FR | Polyester | D6164 Type I | 160 mils (4.0 mm) | | ✓ |
| Polyfresko® G SBS HP FR | Polyester | D6164 Type II | 165 mils (4.2 mm) | | ✓ |
| Polyfresko® G SBS SA | Polyester | D6164 Type I | 142 mils (3.6 mm) | ✓ | |
| Polyfresko® G SBS SA FR | Polyester | D6164 Type I | 142 mils (3.6 mm) | ✓ | |

All values are nominal at time of manufacturing and properties are “as manufactured” unless otherwise noted. Coverages are nominal and approximate and can vary depending on application method and selvage configuration.



POLYGLASS®

MAPEI GROUP

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