

ROOFING AND WATERPROOFING SYSTEMS

**POLYGLASS**



**MAPEI**

GROUP

# APP

**MODIFIED BITUMEN  
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 25 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 81 production facilities in 35 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.



## Why Use Polyglass APP Membranes?

Polyglass provides a broad range of base, interply and cap APP modified bitumen roofing membranes constructed with premium Atactic Polypropylene resins. Superior polyester and/or fiberglass reinforcing are incorporated to offer exceptional tensile strength, puncture resistance and flexibility. These membranes are bottom surfaced with polyethylene burn off film, to provide our contractors with a product that satisfies specified roofing assemblies employing heat welding, torch or self-adhered applications. Cap sheets have a granulated top surface which enhances the membranes UV resistance.

## Multi-ply APP Roof System Advantages:

- Torch applied and self-adhered installation options
- Quick, easy bleed out that provides an immediate and complete seal at seams
- Efficient flow resulting in a full bond to the substrate
- Superior reinforcement for exceptional tear and puncture resistance
- All season formulation for any weather condition
- Wrinkle resistant, fast and clean application
- Long-term weathering performance
- New roofing, re-roofing, re-cover and for flashing details
- Kool Roof options available with Polyfresko® cap sheets



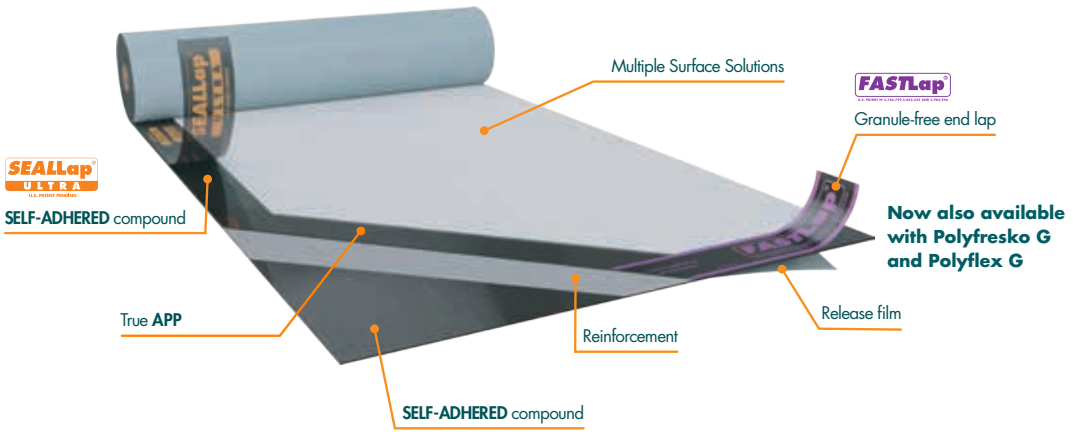
Now featuring patented FASTLap® granule-free end lap on Polyfresko G and Polyflex G torch applied membranes - including FR + HP configurations



# APP Membranes with ADESO® Self-Adhered Technology

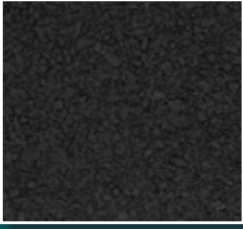
ADESO Technology revolutionized the modified bitumen industry by manufacturing dual-compound self-adhered membranes using a true APP formulation on the top weathering side and an aggressive self-adhered formulation on the bottom side of the reinforcement.

ADESO Technology, and other innovative Polyglass patented technologies featured in our self-adhered membranes provide for overall superior product and roof system performance. Most ADESO 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.



# 11 Color Options

## Available For Granulated Cap Sheets



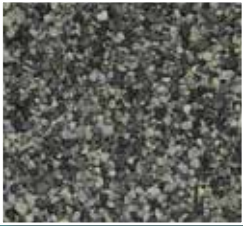
BLACK



BUFF



CHESTNUT



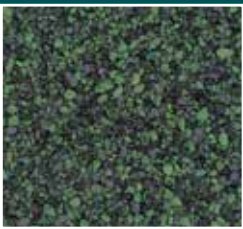
GRAY SLATE



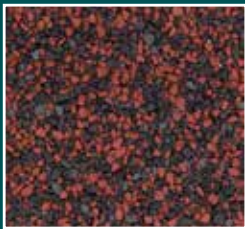
HEATHER BLEND



OAK



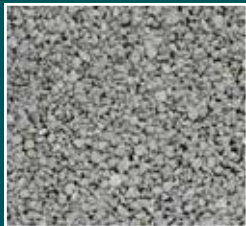
PINE GREEN



RED BLEND



WEATHERWOOD



WHITE



POLYFRESKO  
HIGHLY REFLECTIVE  
WHITE

## 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 APP membranes meet or exceed industry code approvals\*:**

- ASTM
- UL Classified
- FM Approved
- ICC-ES
- Miami Dade County Approved
- Florida Building Code
- Texas Department of Insurance



\*See product Data Sheets for product-specific approvals.

PRODUCT NAME	REINFORCEMENT	ASTM	NOMINAL THICKNESS MILS (MM)	SELF ADHERED	HEAT WELD	MECHANICALLY ATTACHED
<b>CAP SHEETS</b>						
Polybond G	Polyester	D6222 Type I	160 (4.0)		✓	
Polybond G FR	Polyester	D6222 Type I	160 (4.0)		✓	
Polyflex G	Polyester	D6222 Type I	180 (4.5)		✓	
Polyflex G FR	Polyester	D6222 Type I	180 (4.5)		✓	
Polyflex G HP	Polyester	D6222 Type II	180 (4.5)		✓	
Polyflex G HP FR	Polyester	D6222 Type II	180 (4.5)		✓	
Modibond G FR	Polyester	D6222 Type I	160 (4.0)		✓	
Polyfresko G	Polyester	D6222 Type I	165 (4.2)		✓	
Polyfresko G FR	Polyester	D6222 Type I	165 (4.2)		✓	
Polyfresko G HP FR	Polyester	D6222 Type I	173 (4.4))		✓	
Polyflex SA P	Polyester	D6222 Type I	160 (4.0)	✓		
Polyflex SA P FR	Polyester	D6222 Type I	160 (4.0)	✓		
Polyfresko G SA	Polyester	D6222 Type I Table 1	160 (4.0)	✓		
Polyfresko G SA FR	Polyester	D6222 Type I Table 1	160 (4.0)	✓		
<b>BASE/INTERPLY SHEETS</b>						
Polyglass Base	Fiberglass	D6509	80 (2.0)		✓	✓
Polybond	Polyester	D6222 Type I	140 (3.5)		✓	
Polyflex	Polyester	D6222 Type I	160 (4.0) 200 (5.0)		✓	
Polyflex SA Base	Fiberglass	D1970 D6509 Table 1	60 (1.5)	✓		

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.

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