ELASTOFLEX SA V PLUS FR

SELF-ADHERED SBS (ELASTOMERIC) ROOF MEMBRANE

PRODUCT DESCRIPTION

Elastoflex SA V Plus FR membrane is a robust, self-adhered, elastomeric base ply low-slope roofing product with fire retardant additives manufactured using patented ADESO® dual-compound self-adhered technology, whereby a "true" Styrene-Butadiene-Styrene (SBS) modified asphalt compound is applied on the top layer and an aggressive self-adhesive compound is applied on the bottom layer. Elastoflex SA V Plus FR is built with a high quality reinforced fiberglass mat to ensure strength and excellent dimensional stability, providing a robust membrane that resists natural forces and other factors on the rooftop.

Elastoflex SA V Plus FR membrane is finished with film that has laylines on the top surface and a split release film on the bottom surface.

When used in conjunction with Elastoflex SA P or other approved Polyglass self-adhered cap sheet, Elastoflex SA V Plus FR provides cleaner application, improved application speed and removes the need for torches, hot asphalt or bonding adhesives on the job site.

TYPICAL APPLICATIONS

- Component of a Polyglass high performance extended warranty roofing system.
- For use as a base or interply sheet with approved Polyglass roofing systems.
- New construction or approved reroofing specifications for Polyglass roofing systems.
- Job sites with limited access for special installation equipment or where using a propane torch, hot asphalt or adhesives is undesirable.

FEATURES AND BENEFITS

- Long-term adhesion directly to approved non-primed insulation, cover boards and wood decks*
- Premium SBS compound formulation enhances weathering performance and low temp flexibility stability
- Adhere approved SA cap/interply sheet directly to Elastoflex SA V Plus FR*
- Quick dry-in of building and 90 day exposure time* protects property

*See suitable substrates Polyglass Technical Bulletin #2012-02

APPLICATION INSTRUCTIONS

Elastoflex SA V Plus FR is intended to be used as a base sheet or interply for new or re-roof low-slope applications when applied to acceptable insulations and/or coverboards for commercial structures. Elastoflex SA V Plus 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 Polyglass published "Suitable Substrates for Self-Adhered (SA) Membranes."

- Apply Elastoflex SA V Plus 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 WB-3000 Water-Based Primer. Consult Polyglass Technical Service if alternate primer is allowed.
- When re-roofing, remove all prior roofing materials down to a clean debris free substrate and properly close off all abandoned roof penetrations.
- Concrete or Steel decks shall be designed with proper expansion devices.
- Wood decks shall be properly supported by the structural framing.
- Ensure the installation of Elastoflex SA V Plus FR does not prevent the ventilation of existing construction
- Do not apply directly to shingles or other granulated surface roof systems.
- While installing Elastoflex SA V Plus 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 providing a minimum 6" end lap and 3" side lap. Laps can be sealed for additional water tightness with a hot air welder.
  7. Roll with an 75# split-face linoleum roller. Take care on sloped roofs by securing the roller and applicator with the appropriate safety equipment. Intermittent rolling is recommended to ensure complete contact to underlying surface.
  8. When addressing the field details of the seaming intersection treatment (cutting 45 degree at T-Joints), additional care must be taken to ensure the required Polyglass detail is performed. Complete installation instructions can be found on packaging or by calling Polyglass Technical Services.

Details and flashing may be installed using Elastoflex SA V Plus FR with a hot air welder or with PG 500 Roof Cement or PolyPlus 50 Premium Modified Wet/Dry Cement. Check project details for proper installation requirements.

Edition Date: 12/23 • Doc# Elastoflex SA V Plus FR

ADESO SELF-ADHERED TECHNOLOGY

PRODUCT DATA**

Net Coverage (Approx) ..... 13.9 m^2 (150 ft^2)
Weight (Approx) ..... 42 kg (92 lbs)
Thickness (Nominal) .....2.5 mm (100 mils)
Roll Size ..... 15 m × 1 m (49'3" × 39⅜")
Rolls/Pallet.....25

**All values are nominal at time of manufacturing

APPLICABLE STANDARDS

- ASTM D6163, Type 1, Grade S
- UL Classified
- FM Approved
- ICC ESR-2018
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance
- CSA A123.23-15, Type A, Grade 3

PRODUCT CODES

- EFF25SAPLQ

POLYGLASS
MAPEI GROUP
www.polyglass.ca

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SELF-ADHERED SBS (ELASTOMERIC) ROOF MEMBRANE

TECHNICAL DESCRIPTION*

Properties		CSA A123.23-15, Type A, Grade 3	Tested Value	
Thickness – mm (mils)		2.0 (80)	2.5 (100)	
Selvedge thickness – mm (mils)		2.0 (80)	2.5 (100)	
Mass per unit area – kg/m² (lbs/100 ft²)		2.2 (45)	2.8 (57)	
Testing			**Before Heat Conditioning**	**After Heat Conditioning**
Strain energy, min. – kN/m (lbf/in)	At 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	0.2 (1) - MD 0.2 (1) - XMD	0.2 (1) - MD 0.2 (1) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	See Tested Value	0.4 (2) - MD 0.2 (1) - XMD	0.4 (2) - MD 0.4 (2) - XMD
Peak load, min. – kN/m (lbf/in)	At 23 ± 2°C (73.4 ± 3.6°F)	5.3 (30)	12.4 (71) - MD 8.9 (51) - XMD	12.1 (69) - MD 7.7 (44) - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	12.3 (70)	19.6 (112) - MD 13.0 (74) - XMD	24.0 (137) - MD 15.8 (90) - XMD
Elongation at peak load, %	At 23 ± 2°C (73.4 ± 3.6°F)	2%	6 - MD 6 - XMD	4 - MD 4 - XMD
	At -18 ± 2°C (-4 ± 3.6°F)	1%	4 - MD 4 - XMD	5 - MD 4 - XMD
Ultimate elongation at 23 ± 2°C, %		3%	50 - MD 68 - XMD	19 - MD 26 - XMD
Dimensional stability, max., %		0.5%	0.2	
Low temperature flexibility, max. – °C (°F)		-18 (-4)	Pass	
Compound stability, min. – °C (°F)		91 (195)	Pass	

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

MANUFACTURING FACILITIES

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

CORPORATE HEADQUARTERS

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Questions? 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 in its product that directly results in leakage for a period of 2 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.ca

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