

**BITEC® Elastoplan PolyKlad is a 90 mil aluminum surfaced modified membrane designed to be used in conjunction with BITEC SBS roofing systems as flashing or, in particular systems, as a cap ply. It is a specially formulated styrene-butadiene-styrene modified asphalt, laminated on one side with a highly reflective aluminum surfacing and bearing a superior adhesive surface on the other. There is a high quality release film to protect the adhesive prior to application and a 3" selva edge for adhesion of laps.**

## FEATURES & BENEFITS

BITEC Elastoplan PolyKlad also provides the following features and benefits:

- Meets or exceeds the criteria of:
  - \* ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- Can also be used for a wide variety of repairs in both commercial and residential applications
- Designed for low-slope, making it ideal for any situation where you need dependable and long-lasting waterproofing
- Fully self-adhered, no open flame required
- Ease of installation saves labor cost
- Outstanding puncture and abrasion resistance
- Large roll size means less waste
- Can be exposed to sunlight / UV for the life of the roof
- Does not require any additional surfacing or coating

## PACKAGING

Roll package: Protective cardboard carton

Rolls per pallet: 30

Pallets per truckload (typical): 22

## APPROVALS

STANDARD SPECIFICATION(S):

ASTM D1970

## APPLICATION



Elastoplan PolyKlad is self-adhered by removing a split release film from the back of the membrane. End laps are treated with BITEC PMA-186 Polymer Modified Adhesive or PMA-2000 Flashing Adhesive. When installing as part of a BITEC SBS

roofing system, please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines.

For general applications, first ensure that the surfaces to be adhered to are clean, dry, and free from grease and other solvents. A minimum 1/2" in 12" slope is required and the product is not to be used in areas with ponding water. The ambient temperature should be at least 55°F (13°C) and rising.

It is necessary to verify that all sealants or caulks that Elastoplan PolyKlad will be in contact with are both compatible with this material and are fully cured prior to application.

Use of primers will depend on the substrate. Refer to the BITEC Roofing Products Installer's Guide for system specific information on BITEC products. Wood, OSB, concrete, masonry, EPDM roofing, or rusted metal should be primed with a BITEC approved primer to promote long-term adhesion. For other materials not listed in BITEC guides, please contact the BITEC Technical Services Department for information on approved primers and substrates. Before adhering Elastoplan PolyKlad, ensure that the primer has been properly and uniformly applied.

To begin installing Elastoplan PolyKlad, simply cut the material to size for the area being flashed, partially remove the release film, and adhere the membrane, applying pressure to the exposed section as the remainder of the film is removed. As the material is adhered to the substrate, apply firm pressure uniformly over the surface to activate the pressure sensitive adhesives. BITEC recommends a 75 lb (34 kg) roller. Side laps must be 3" (7.6 cm) and head laps should be 6" (15.2 cm) and rolled uniformly.

**As with any roofing project, good roofing practices should always be followed.**

## STORAGE & HANDLING

Store the Elastoplan PolyKlad rolls in their original containers with labels unbroken in a clean, dry, protected location and within the temperature range required to provide for proper application. Keep rolls stored upright on their original pallet. Never lay rolls down or stack materials on top of the rolls - BITEC recommends that units of material always be single stacked. Avoid dropped rolls on the edges to avoid potential deformation that can affect their ability to roll out evenly. Handle and place roofing materials and equipment in a manner to avoid permanent deflection of the deck.

### **PRECAUTIONS**

BITEC SBS membranes are not recommended for use over coal tar or pitch roofs unless the existing deck is separated by a minimum 1/2" thick, mechanically attached recover board. BITEC does not allow the use of plastic roofer's cement with any of its membranes.

Safety first! The roofing contractor and employees are the key to success regarding safety. Safety should always be first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit [www.bitec.com](http://www.bitec.com).

Technical Schedule				
3rd Party Independent: (NEMO ETC   SGS SA   Element Materials Technology)				
Polymer / Modifier	SBS		ASTM D1970	
Coverage (nominal)	100.5 ft² (9.2 m²)			
Roll Dimensions	33.5' (10.2 m) length	3' (0.9 m) width		
Weight	33 lbs (15.0 kg) / roll			
Membrane Surfacing	Top: Aluminum foil	Bottom: Release film		
Selvage Width	3" (7.6 cm)			
Thickness	90 mils (2.3 mm)			
Installation Temperature Range	> 55°F (13°C)			
Service Temperature Range	Min: -20°F (-28.9°C)	Max: 170°F (76.7°C)		
Cold Flexibility	Passed @ -20°F (-28.9°C)			
Vapor Permeance	< 0.01		ASTM E96	
Nail Sealability	Pass		ASTM D1970	
Average Results Reported Below:		Test Direction		ASTM D2523
		MD	XMD	
Tensile Strength	32 lbf/in (5.6 kN/m)	33 lbf/in (5.8 kN/m)		
Elongation	788%	779%		

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.

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 Revision Date 12/2025