

BITEC[®] APS-4T is a premium quality APP modified bitumen base ply manufactured using a time-proven, proprietary blend of select asphalts and polypropylene resins with minimal use of fillers and additives. APS-4T is designed for torch application over a variety of approved substrates in commercial roof membrane configurations.

FEATURES & BENEFITS

BITEC APS-4T also provides the following features and benefits:

- Meets or exceeds the criteria of ASTM D6223 (Type I, Grade S) Standard Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements
- A durable bitumen blend with excellent waterproofing capabilities
- Manufactured using a patented wet talc slurry application to prevent blocking of rolls and to provide a smooth, even surface
- The pattern-embossed burn-off film serves as a visual indicator for proper exposure of the heated membrane bitumen
- Reinforced with a durable polyester mat for puncture resistance and tensile strength

PACKAGING

Roll package: Two labeled plastic bands

Rolls per pallet: 20

Pallets per truckload (typical): 18

APPROVALS

UL Classified R13231 Membrane for Roofing Systems as to an External Fire Exposure Only 49S8

STANDARD SPECIFICATION(S):

ASTM D6223, TYPE I, GRADE S

FLORIDA PRODUCT APPROVAL

FM Approved

TDI Evaluation ID: RC-58

HUD MR No. 1229

APPLICATION



APS-4T is torch applied. Please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines. In all cases, follow CERTA (Certified Roofing Torch Applicator) safety guidelines, keep a properly maintained fire extinguisher within reach, and designate an employee to perform a fire watch for a minimum of 2 hours after torch application has ended.

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

STORAGE & HANDLING

Store the APS-4T 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. 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 APP 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.

Technical Schedule		
3rd Party Independent: (NEMO ETC SGS SA Element Materials Technology)		
Design Standard	Type I, Grade S	
Reinforcement	Polyester	
Polymer / Modifier	APP	
Coverage (nominal)	100 ft ² (9.3 m ²)	
Coverage	98.5 ft ² (9.2 m ²) installed	111.2 ft ² (10.3 m ²) / roll
Roll Dimensions	33.9' (10.3 m) length	3.28' (1.0 m) width
Weight	84 lbs / 100 ft ² (38.1 kg / 9.3 m ²)	90 lbs (40.8 kg) / roll
Membrane Surfacing	Top: Bitumen	Bottom: Polyethylene film
Selvage Width	4" (10.16 cm)	
Selvage Surfacing	Bitumen	
Thickness	4 mm (nominal)	160 mils (average)
Average Results Reported Below:		Test Direction
		MD
Tear Strength	157 lbf (698.4 N)	123 lbf (547.1 N)
Peak Load @ 0°F (-17.8°C)	196 lbf (871.9 N)	155 lbf (689.5 N)
Peak Load @ 73°F (22.8°C)	138 lbf (613.9 N)	112 lbf (498.2 N)
Elongation at Peak Load @ 0°F (-17.8°C)	8%	6%
Elongation at Peak Load @ 73°F (22.8°C)	58%	73%
Low Temperature Flexibility @ -13°F (-25°C)	Pass	Pass
Aged (2,000 hours) Peak Load @ 0°F (-17.8°C)	108 lbf (480.4 N)	91 lbf (404.8 N)
Aged (2,000 hours) Peak Load @ 73°F (22.8°C)	135 lbf (600.5 N)	91 lbf (404.8 N)
Aged (2,000 hours) Elongation at Peak Load @ 0°F (-17.8°C)	52%	51%
Aged (2,000 hours) Elongation at Peak Load @ 73°F (22.8°C)	50%	51%
Aged (2,000 hours) Low Temperature Flexibility @ 0°F (-17.8°C)	Pass	Pass
Dimensional Stability	0%	0%
Compound Stability	230°F (110°C)	

ASTM D6223

ASTM D5147

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