



EMSEAL AST Hi-Acrylic

Metal Roof & Building Sealants



Product Description:

AST is a self-adhering tape seal made from resilient, open-cell polyurethane foam impregnated with a water-based acrylic-modified asphalt emulsion and then compressed to a sealing density level appropriate to the application. Typically, higher compression levels are required for watertightness in water run-off applications; lower compression can be used, for example, for snow seals at roof ridges.

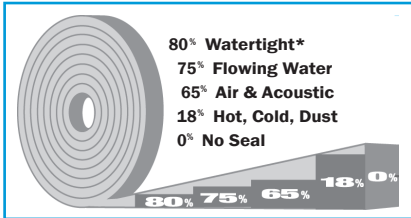
AST replaces and outperforms liquid and butyl-tape sealants as well as closed-cell and unimpregnated open-cell foam closures.

Product Uses:

AST sealant tape is used to seal out dust, air, wind-driven snow, and moisture through joint details in metal buildings and roofs. AST is ideal as a filler in expansion/compression joints subject to movement from thermal expansion and contraction, and as a gasket in mechanically fastened, non-moving applications such as lap seams. AST is suitable for use against metal, plastic, wood, concrete, and other materials common in metal building structures.



Compression Levels



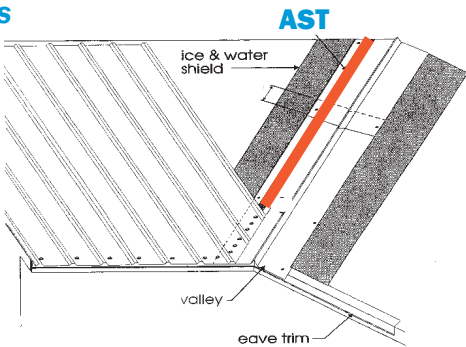
Higher levels of compression offer greater protection

* Watertight up to 5 PSF per ASTM E-331 modified to run 24 hours instead of standard 15 minutes. This equates to a 1-inch standing head of water for 24 hours without leakage.

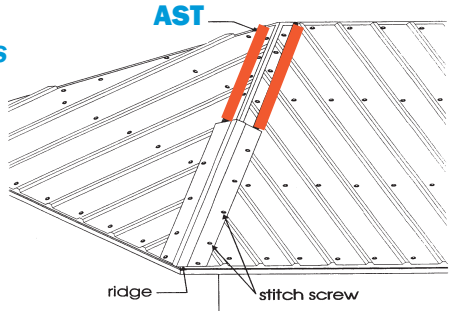
Product Features:

- Will not dry out and become hard and brittle
- UV-stable
- Highly resistant to bugs and vermin
- Will not extrude from between joints like caulk or butyl tapes
- Conforms to contours and fills gaps
- Maintains a seal during thermal expansion and contraction of building panels
- Excellent compressibility and recovery (minimal compression set)
- Good thermal and sound insulator
- No shrinkage or blow-out due to closed-cell breakage
- Supplied with self-adhesive on one side. After removal of packaging, material begins gradual expansion - more slowly in cold weather than in hot.

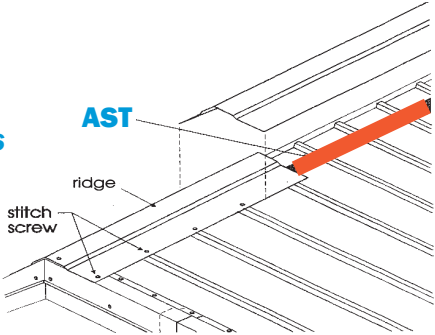
Valleys



Hips



Ridges



To purchase contact us at:
1203 Goldsmith Road, Paragould, AR 72450
870-586-0703 (office) | 870-586-0643 (fax)
800-537-4160 (toll free)
www.lakeside-fasteners.com



EMSEAL AST Hi-Acrylic

Metal Roof & Building Sealants

Filling Voids and Panel Contours

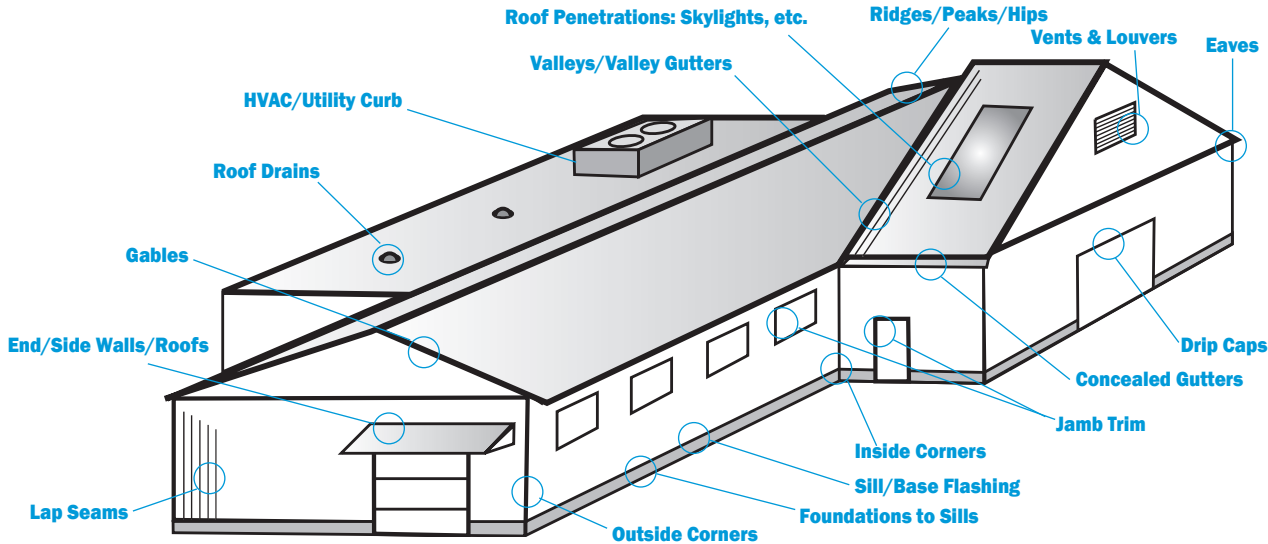
Use AST Hi-Acrylic in all applications where the material will be allowed to expand to fill voids or follow panel contours.

- Ridges, Peaks, Hips
- Valleys, Valley Gutters
- Gables
- Inside/Outside Corners
- Window/Door Jambs
- Eaves

Gasketing Applications

Use AST Hi-Acrylic in flat-on-flat "gasket" applications where the material will be held at a high degree of compression by fasteners such as clips, screws, etc.

- Lap Seams
- Roof Penetrations, Skylights
- Vents and Louvers
- Base Angles
- HVAC/Utility Curbs



Property	Value	Test Method
Base Material	Open cell, high density, polyurethane foam	N/A
Impregnation	Acrylic-modified asphalt	N/A
Color	Black	N/A
Tensile strength	21 psi min (145 kPa)	ASTM D3574
Elongation - ultimate	150% min	ASTM D3574
Temperature range		ASTM C711
High - permanent	185 °F (85 °C)	
High - short term	203 °F (95 °C)	
Low	-40 °F (-40 °C)	
Softening point	140 °F min (60 °C)	ASTM D816
UV resistance	Excellent	
Mildew resistance	Excellent	
Resistance to aging	Excellent	
Bleeding -40 °F to 180 °F (-40 °C to 85 °C)	None (when compressed down to 20% of uncompressed thickness)	
Compression set 70 °C 50% RH after 72hrs	3% max	ASTM D3574
Thermal conductivity	0.34 Btu. in/hr. ft ² . °F (0.05 W/m. °C)	ASTM C518
Low temp. flexibility 32 °F to -10 °F (0 °C to -23 °C)	No cracking or splitting	ASTM C711
Water vapor transmission at 25% compression	0.011 perms	ASTM C355-64

Standard & Custom Sizes Available

The following are the most popular sizes for void-filling applications.

Supplied Size	Expanded Size	Box Quantity	Reels Per Box	Reel Length	Product Code
1/4" x 3/4" (6 x 20mm)	1" x 3/4" (25 x 20mm)	629.76 LF (192m)	32	19.68' (6m)	ASH-25-20-06
1/4" x 1" (6 x 25mm)	1" x 1" (25 x 25mm)	511.68 LF (156m)	26	19.68' (6m)	ASH-25-25-06
5/16" x 3/4" (8 x 20mm)	1 1/4" x 3/4" (30 x 20mm)	419.84 LF (128m)	32	13.12' (4m)	ASH-30-20-04
3/8" x 1 1/4" (10 x 30mm)	1 1/2" x 1 1/4" (40 x 30mm)	262.40 LF (80m)	20	13.12' (4m)	ASH-40-30-04

The following are the most popular sizes for tightly-squeezed gasketing applications.

Supplied Size	Expanded Size	Box Quantity	Reels Per Box	Reel Length	Product Code
3/32" x 3/8" (2.5 x 10mm)	3/8" x 3/8" (10 x 10mm)	1968 LF (600m)	60	32.8' (10m)	ASH-10-10-10
1/8" x 1/2" (3 x 12mm)	1/2" x 1/2" (12 x 12mm)	1640 LF (500m)	50	32.8' (10m)	ASH-12-12-10