

A SIKA COMPANY

EMSEAL AST Hi-Acrylic

Multi-Use Farm Sealant Sealants



Product Description:

AST Hi-Acrylic tapes from EMSEAL are the ideal solution for many sealing needs. Engineered for the harsh open farm environment, they seal a wide range of building joints, seams, pads, flanges and other details found in many different farm structures. Both existing and new structures can benefit from AST's unique sealing capabilities. AST is designed to work with many different materials, in a large range of uses.

EMSEAL's AST tapes can be used in almost any location where surfaces need closure. They are made to seal out dust, air, snow, and moisture through joint details such as those found 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 common building materials. It comes in a range of sizes to suit your needs.

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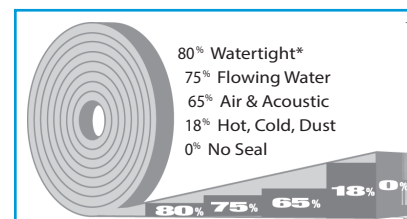
AST is a unique combination of two sealant materials. It is a non-drying acrylic/asphalt liquid sealant held in a self-expanding foam. AST replaces and outperforms liquid and butyl-tape sealants as well as closed-cell and plain open-cell foam closures and tapes. AST is installed between surfaces to be sealed by attaching it to one surface using its built-in mounting adhesive. AST must be kept compressed to a sealing density level appropriate to the application and desired level of sealing (see compression chart). Typically, higher compression levels are required for watertightness. Lower compression can be used, for example, when a dust, acoustic or wind-blown snow seal is desired. You'll find AST Hi-Acrylic versatility and outstanding performance to be the sealant solution that you've been looking for in many applications around the farm.



Product Features:

- Provides a long-term seal
- UV-stable
- Highly resistant to bugs and vermin
- Will not dry out or become hard and brittle with age
- 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 failure due to cell breakage as in closed-cell types
- Supplied with self-adhesive and anti-stretch scrim on one side
- Maintenance free. Doesn't need recaulking

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.



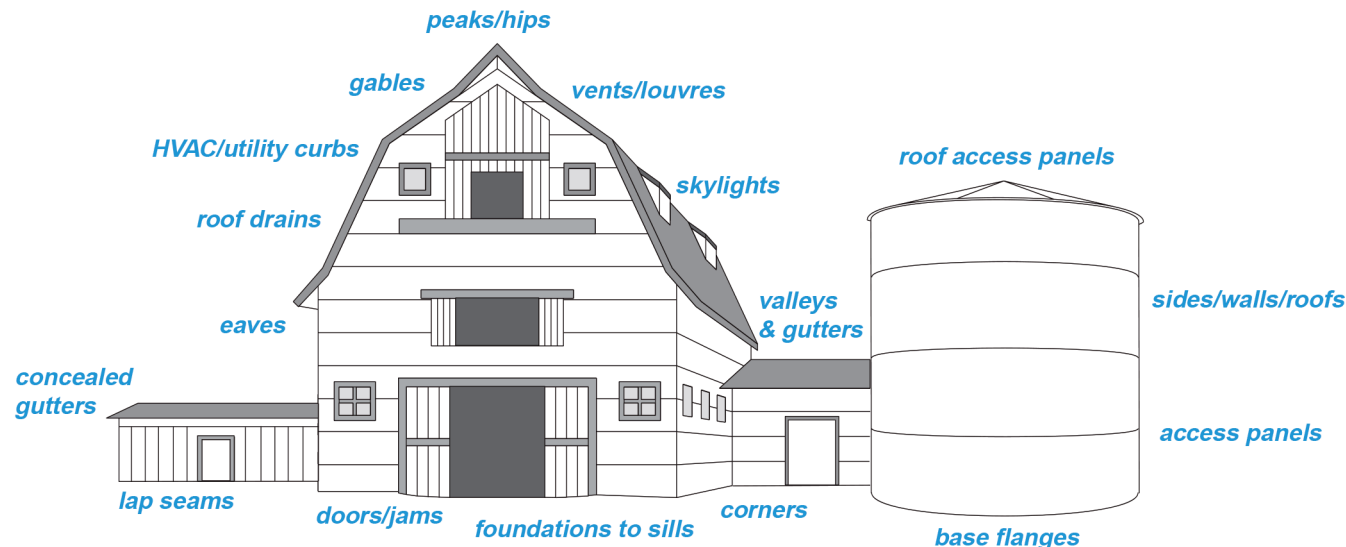
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Around the Farm -- Where to use AST

WHEREVER building or structural surfaces meet. Barns, silos, sheds, poultry buildings, pole barns, bins, stables, towers, trailers, concrete aprons, driveway joints, scale perimeters, bulkhead doors, basement stairs, etc. AST Hi-Acrylic tape will work in almost any location.



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

TABLE 1: Typical Physical Properties of AST

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 High - permanent High - short term Low	185°F (85°C) 203°F (95°C) -40°F (-40°C)	ASTM C711
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