



# AST Hi-Acrylic Multi-Use Farm Sealant

# PRODUCT A T A

### Product Uses

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.



### Product Description

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.

### Levels of Sealing

	Zero Compression (fully expanded)	
1-No Seal (material needs some compression to stay in joint)		
2-Heat & Cold, Dust, Acoustic	*18% compression	82%
3-Heat & Cold, Dust, Acoustic, Air	*66% compression	33%
4-Heat & Cold, Dust, Acoustic, Air, Vapor	*75% compression	25%
5-Heat & Cold, Dust, Acoustic, Air, Vapor, Water	*80% compression	20%

\*compression from fully expanded size

### Product Features

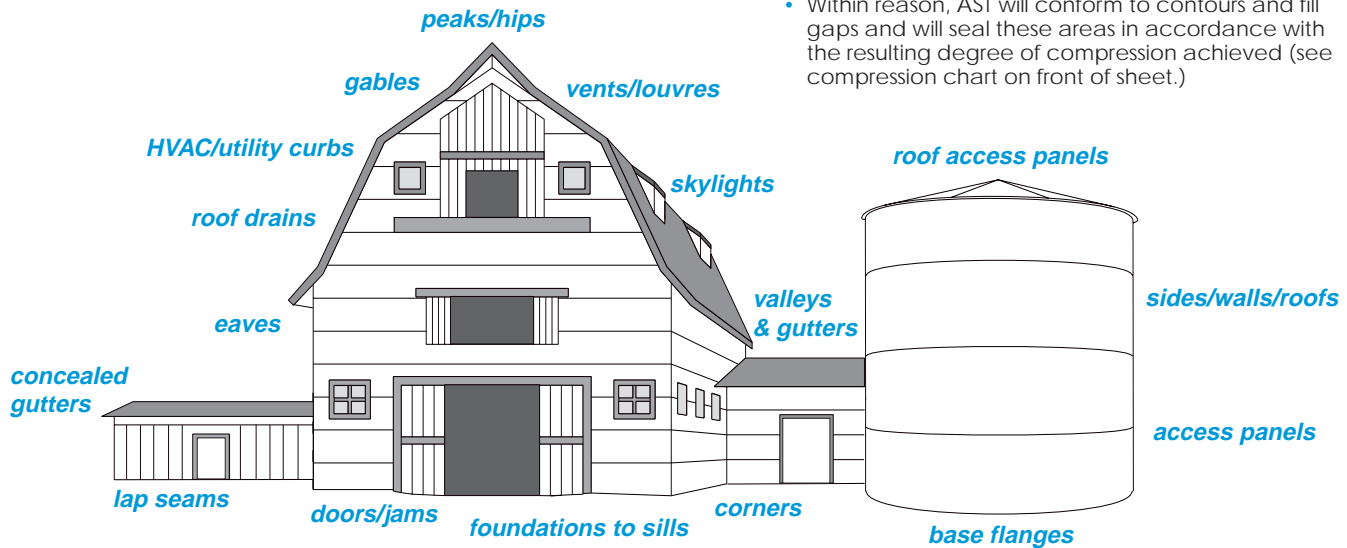
- Provides a **long-term seal**
- **UV-stable**
- Highly **resistant to bugs and vermin**
- **Will not dry out** or become hard and brittle with age
- **Will not extrude** from between joints like caulk or butyl tapes
- **Conforms to contours** and fills gaps
- **Maintains a seal** during thermal expansion 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

**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.

**Installation Guidelines**

- Surfaces to be sealed must be clean and dry.
- To start reel, cut outer liner on marking tape.
- After removal from packaging, material begins a gradual expansion – slower in cold weather than in hot.
- Peel release liner to expose mounting adhesive.
- Position AST over desired location and press to secure.
- Position other surface to be sealed over AST and secure in place.
- Within reason, AST will conform to contours and fill gaps and will seal these areas in accordance with the resulting degree of compression achieved (see compression chart on front of sheet.)



**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)	
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 <sup>2</sup> .°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

Available from: