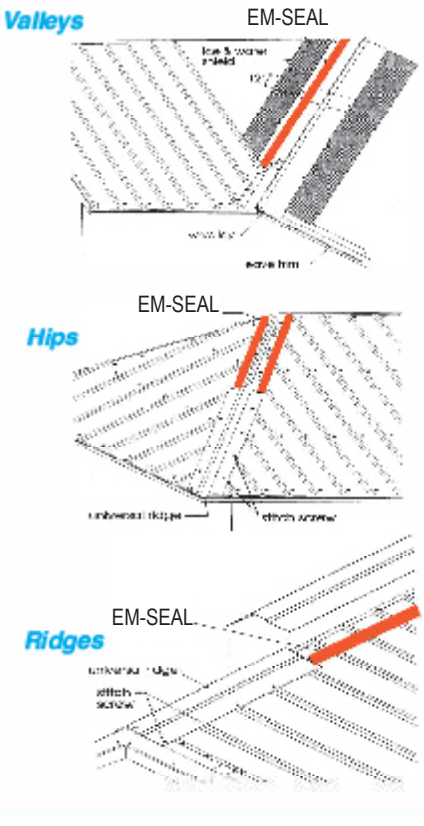
Em-Seal Foam Closure





Em-Seal Closure - AST Hi-Acrylic

Em-Seal 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.

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

Em-Seal sealant tape is used to seal out dust, air, wind-driven snow, and moisture through joint details in metal buildings and roofs. Em-Seal 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. Em-Seal is suitable for use against metal, plastic, wood, concrete, and other materials common in metal building structures.

Features

- Watertight at 80% Compressed
- Stops Flowing Water at 75% Compressed
- Blocks Air and Acoustic at 68%
- Restricts Hot, Cold, Dust at 18%
- Will not dry out and become 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.
- Sold by the piece.

Part#	Description	Pck. Qty.	Height	Width	Length
EMS	Em-Seal Expandable Closure	26	1"	1"	19.68'
EMS1.5	Em-Seal Expandable Closure for PBR	16	1.5"	1.5"	13.12'



MATERIAL DETAIL

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 5-inch standing head of water for 24 hours without leakage.*

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. ft².°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

