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

<table>
<thead>
<tr>
<th>Compression Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>80% Watertight*</td>
<td>Highest protection</td>
</tr>
<tr>
<td>75% Flowing Water</td>
<td></td>
</tr>
<tr>
<td>68% Air &amp; Acoustic</td>
<td></td>
</tr>
<tr>
<td>18% Hot, Cold, Dust</td>
<td></td>
</tr>
<tr>
<td>0% No Seal</td>
<td></td>
</tr>
</tbody>
</table>

* 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.
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
- Base Angles
- HVAC/Utility Curbs

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
- HVAC/Utility Curbs

TABLE 1: Typical Physical Properties of AST

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Material</td>
<td>Open cell, high density, polyurethane foam</td>
<td>N/A</td>
</tr>
<tr>
<td>Impregnation</td>
<td>Acrylic-modified asphalt</td>
<td>N/A</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td>N/A</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>21 psi min (145 kPa)</td>
<td>ASTM D3574</td>
</tr>
<tr>
<td>Elongation - ultimate</td>
<td>150% min</td>
<td>ASTM D3574</td>
</tr>
<tr>
<td>Temperature range</td>
<td>185°F (85°C)</td>
<td>ASTM C711</td>
</tr>
<tr>
<td>Low</td>
<td>203°F (95°C)</td>
<td>ASTM D816</td>
</tr>
<tr>
<td>High - permanent</td>
<td>-40°F (-40°C)</td>
<td></td>
</tr>
<tr>
<td>High - short term</td>
<td>140°F min (60°C)</td>
<td></td>
</tr>
<tr>
<td>Softening point</td>
<td>0.34 Btu/hr. ft².°F</td>
<td></td>
</tr>
<tr>
<td>UV resistance</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Bleeding</td>
<td>None (when compressed down to 20% of uncompressed thickness)</td>
<td></td>
</tr>
<tr>
<td>Resistance to aging</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Compression set</td>
<td>3% max</td>
<td>ASTM D3574</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>0.34 Btu/hr. ft².°F (0.05 W/m.°C)</td>
<td></td>
</tr>
<tr>
<td>Low temp. flexibility</td>
<td>32°F to -10°F (0°C to -23°C)</td>
<td></td>
</tr>
<tr>
<td>Water vapor transmission</td>
<td>0.011 perms</td>
<td>ASTM C355-64</td>
</tr>
</tbody>
</table>

Standard & Custom Sizes Available
The following are the most popular sizes for void-filling applications.

<table>
<thead>
<tr>
<th>Supplied Size</th>
<th>Expanded Size</th>
<th>Box Quantity</th>
<th>Reels Per Box</th>
<th>Reel Length</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; x 3/4&quot;</td>
<td>1&quot; x 3/4&quot;</td>
<td>629.76 LF</td>
<td>32</td>
<td>19.68'</td>
<td>ASH-25-20-06</td>
</tr>
<tr>
<td>(6 x 20mm)</td>
<td>(25 x 20mm)</td>
<td>(192m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4&quot; x 1&quot;</td>
<td>1&quot; x 1&quot;</td>
<td>511.68 LF</td>
<td>26</td>
<td>19.68'</td>
<td>ASH-25-25-06</td>
</tr>
<tr>
<td>(6 x 25mm)</td>
<td>(25 x 25mm)</td>
<td>(156m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/32&quot; x 3/8&quot;</td>
<td>3/8&quot; x 3/8&quot;</td>
<td>1968 LF</td>
<td>60</td>
<td>32.8'</td>
<td>ASH-10-10-10</td>
</tr>
<tr>
<td>(2.5 x 10mm)</td>
<td>(10 x 10mm)</td>
<td>(600m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/8&quot; x 1/2&quot;</td>
<td>1/2&quot; x 1/2&quot;</td>
<td>1640 LF</td>
<td>50</td>
<td>32.8'</td>
<td>ASH-12-12-10</td>
</tr>
<tr>
<td>(3 x 12mm)</td>
<td>(12 x 12mm)</td>
<td>(500m)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Supplied Size</th>
<th>Expanded Size</th>
<th>Box Quantity</th>
<th>Reels Per Box</th>
<th>Reel Length</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/32&quot; x 3/8&quot;</td>
<td>3/8&quot; x 3/8&quot;</td>
<td>1968 LF</td>
<td>60</td>
<td>32.8'</td>
<td>ASH-10-10-10</td>
</tr>
<tr>
<td>(2.5 x 10mm)</td>
<td>(10 x 10mm)</td>
<td>(600m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/8&quot; x 1/2&quot;</td>
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<td>1640 LF</td>
<td>50</td>
<td>32.8'</td>
<td>ASH-12-12-10</td>
</tr>
<tr>
<td>(3 x 12mm)</td>
<td>(12 x 12mm)</td>
<td>(500m)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>