

# FAS-n-FREE® Adhesive

## Solvent Free, Fastener Free, Insulation Attachment

### COMPOSITION:

FAS-n-FREE® Adhesive is a one part solvent free, moisture curing, asphaltic urethane adhesive possessing high elastomeric and adhesive characteristics.

### BASIC USES:

FAS-n-FREE Adhesive is a high performance adhesive used in roofing systems for bonding approved insulations to base sheets, structural roof decks, and other approved insulations.

### LIMITATIONS:

- Do not apply when ambient or material temperatures are below 45°F (7°C).
- Do not use with expanded polystyrene, extruded polystyrene, phenolic, or cellular glass insulation.
- Do not adhere directly to wood, poured in place gypsum, or lightweight insulating concrete decks.
- Do not apply to structural roof deck without a primer.
- Do not use on acoustical metal deck panels unless steps are taken to avoid the potential for minor drip-page of FAS-n-FREE Adhesive prior to its cure.
- Care must be taken to ensure insulation board quality is not lost due to improper storage or handling.

Product Advantages	
Features	Benefits
Solvent Free	<ul style="list-style-type: none"> <li>• Not flammable</li> <li>• Can be used in limited access areas</li> <li>• Low odor</li> <li>• No flames or hot kettles</li> <li>• Meets California VOC limits</li> </ul>
Polymer modified	<ul style="list-style-type: none"> <li>• Excellent adhesion</li> <li>• Capable of absorbing stresses</li> </ul>
Non-penetrating attachment	<ul style="list-style-type: none"> <li>• No fastener backout causing puncture to the roof</li> <li>• No fastener rusting and wind uplift loss.</li> <li>• Retention of substrate integrity minimizes installation noise</li> <li>• Lower application labor costs</li> </ul>
FM Approved	<ul style="list-style-type: none"> <li>• Fire/wind protection</li> </ul>
	<ul style="list-style-type: none"> <li>• Manufactured under a UL quality assurance inspection program</li> </ul>



ACCEPTABLE INSULATIONS	
Type	Minimum Thickness *
Wood Fiber	1" ** (25mm)
Fibrous Glass	3/4" (19mm)
Isocyanurate	1.2" (30.5mm)
Maximum Board Size	4' x 4' (1.2m x 1.2m)
Dens Deck	1/4" (6mm)

\* Minimum board thickness for application of Fas-n-FREE Adhesive. Consult your local Tremco Representative for acceptable insulation manufacturers.  
 \*\* 25/32" (20mm) and 1/2" (13mm) Tremco/Temple six side asphalt coated 4' x 8' (1.2m x 2.4m) wood fiber is an accepted insulation.  
 \*\* Wood fiber insulation manufactured from factory laminated layers is not accepted for use.

### PACKAGING:

Available in 5 gallon (18.9 liter) containers.

### STORAGE LIFE:

Six months in unopened containers.

### EQUIPMENT:

From the can, roofing ladle, or FAS-n-FREE Applicator. The applicator is required on metal decks.

### TREMCO ADHESIVE APPLICATOR:

Variable applicator ports six inch on center (150mm). Consult FAS-n-FREE Applicator Cart data sheet.

### SURFACE PREPARATION:

Areas to receive FAS-n-FREE Adhesive must be clean, dry, and free of dust, dirt, oil, and other contaminants which may adversely affect adhesion. Roof deck substrates must be primed with Tremprime WB and allowed to dry thoroughly. \*Obtain and read Spec Data for directions when applying Tremprime WB.

Assure the roof deck is properly blocked or sealed to prevent drippage of adhesive into the building.

When applying multiple layers of insulation, the previous insulation course does not require priming.

### APPLICATION

Open each FAS-n-FREE Adhesive container just prior to application. Remove and discard skinned product, if present, which may be on top of the material.

Apply FAS-n-FREE Adhesive to either the substrate or the back of the insulation board in 1/2 to 3/4 inch (13 – 19mm) diameter beads. A continuous bead of adhesive must be within 2-1/2 inches (65mm) of the two side edges of the insulation board.



The FAS-n-FREE Applicator Cart is recommended to assist in applying the recommended pattern of ribbon beads of FAS-n-FREE Adhesive. Do not allow adhesive to sit in applicator cart more than 15 minutes since the adhesive will begin to skin over.

On metal roof decks, the ribbon beads of FAS-n-FREE Adhesive must be applied to the top flange of the decking.

Set insulation boards into the FAS-n-FREE Adhesive immediately and step boards into place.

**COVERAGE RATE**

Apply FAS-n-FREE Adhesive at 1.5 to 2.0 gal/SQ (0.6 to 0.8 L/m<sup>2</sup>). This can be achieved by applying 8 ribbons of adhesive, with each bead measuring ½ to ¾ inch (13 to 19mm) in diameter.

The FAS-n-FREE Applicator Cart will assist the roof installer in applying the recommended pattern of ribbons of FAS-n-FREE Adhesive at a measured coverage rate so that 4 foot wide insulation boards may be installed in one pass.

Increase coverage rate of FAS-n-FREE Adhesive in perimeter and corner areas by applying larger ribbons to the substrate. Refer to Factory Mutual Loss Prevention Data Sheet 1-29.

**MIXING:**

Remove skin from top before using. No need to mix.

**CLEAN UP:**

Use Xylene to remove FAS-n-Free from equipment before cure.

**PRECAUTIONS:**

Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

**AVAILABILITY AND COST:**

Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

**MAINTENANCE:**

Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

**GUARANTEE/WARRANTY:**

Tremco Inc. warrants FAS-n-FREE Adhesive to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, and FAS-n-FREE Adhesive product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

<b>Physical/Performance Characteristics</b>		
<b>FAS-n-FREE® Insulation Adhesive</b>		
<b>Property</b>	<b>Typical Value</b>	<b>Test Method</b>
Volatiles Organic Content	<20 g/L	ASTM D 3960-98
Asbestos Content	None	EPA 600/R-93/116
Viscosity @ 77°F (25°C)	70,000 cP (70Pa·s)	ASTM D 2556-93a
Non-Volatile Content	98%	ASTM D 1644-88 (1993)
Density @ 77°F (25°C)	8.5 lb/gal. (1016g/L)	ASTM D 1875-95
Tensile Strength @ 77°F (25°C)	200 psi (1379kPa)	ASTM D 412-92
Elongation @ 77°F (25°C)	1200%	ASTM D 412-98a
Adhesion Strength in Shear @ 77°F (25°C)	80 psi (552kPa)	ASTM D 816-82 (1993)
Average T-Peel Strength @ 77°F (25°C)	15 lbf. (66N)	ASTM D 1876-95
Low Temp Flexibility	Pass at -60°F (-51°C)	ASTM D 816-82 (1993)

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**TECHNICAL SERVICES:**

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service Staff.

**STATEMENT OF POLICY AND RESPONSIBILITY:**

Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.



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