

# FAS-N-FREE®

## Solvent Free Adhesive for Fastener Free Insulation Attachment

### FEATURES

Solvent Free

Polymer modified

Non-penetrating attachment

### BENEFITS

- Not flammable
- Can be used in limited access areas
- Low odor
- No flames or hot kettles
- Meets California VOC limits
- Excellent adhesion
- Capable of absorbing stresses
- No fastener backout causing puncture to the roof
- No fastener rusting and wind uplift loss.
- Retention of substrate integrity minimizes installation noise
- Lower application labor costs

### DESCRIPTION

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

### BASIC USES

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

Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

### PACKAGING

Available in 5 gallon (18.9 liter) containers.

### STORAGE LIFE

Six months in unopened containers.

### APPLICATION

**Equipment:** From the can, roofing ladle, or 2 wheel drop cart with ports 6" (150mm) on center. The applicator is required on metal decks.

**Tremco Adhesive Applicator:** Variable applicator ports six inch on center (150mm).

**Surface Preparation:** Areas to receive FAS-N-FREE 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 container just prior to application. Remove and discard skinned product, if present, which may be on top of the material.

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

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

#### Acceptable Insulations:

TYPE	MINIMUM THICKNESS*
Wood Fiber	1" ** (25mm)
Polyisocyanurate	1.2" (30.5mm)
Mineral Wool	1" (25mm)
Gypsum Roof Board (Dens-Deck, Securock)	1/4" (6mm)
Maximum Board Size	4' x 4' (1.2m x 1.2m)

\*Minimum board thickness for application in Fas-n-FREE.

Consult your local Tremco Representative for acceptable insulation manufacturers.

\*\* Wood fiber insulation manufactured from factory laminated layers is not accepted for use.

# FAS-N-FREE®

## COVERAGE RATE

Apply FAS-N-FREE 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.

Increase coverage rate of FAS-N-FREE in perimeter and corner areas by increasing number of ribbons and/or applying larger ribbons to the substrate.

## MIXING

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

## CLEAN UP

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

## 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 prior to its cure.
- Care must be taken to ensure insulation board quality is not lost due to improper storage or handling.

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Volatile Organic Content	<20 g/L	ASTM D 3960
Asbestos Content	None	EPA 600/R-93/116
Viscosity @ 77°F (25°C)	40,000-100,000 cP	ASTM D 2556
Non-Volatile Content	98-99%	ASTM D 1644
Density @ 77°F (25°C)	8.5-8.9 lbs/gal. (1018-1066g/L)	ASTM D 1875
Tensile Strength @ 77°F (25°C)	125 psi 862kPa	ASTM D 412-92 Method A
Elongation @ 77°F (25°C)	320%	ASTM D 412 Method A
Adhesion Strength in Shear* @ 77°F (25°C)	79 psi (547kPa)	ASTM D 816
Adhesion Strength in Tension @ 77°F (25°C)	20 psi (135kPa)	ASTM D 7105
Low Temp Flexibility Cold Brittleness	Pass at -60°F (-51°C)	ASTM D 816

\* Gypsum coverboard to metal substrate

## MAINTENANCE

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

## PRECAUTIONS

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

## TECHNICAL SUPPORT

Your local Tremco Roofing Sales Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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