

# TF-4000 Closed Cell Wall Insulation



A Commercial Thermal Solution Company

## PRODUCT DESIGN

**Tiger Foam 4000 Spray Foam Wall Insulation™** is a closed cell spray applied foam, which was developed using an EPA acceptable next generation blowing agent which when installed following application guidelines adheres tenaciously to framing members and substrates.

**Tiger Foam 4000 Spray Foam Wall Insulation™** provides superior energy economy and durability while significantly reducing unmanaged moisture and air infiltration.

## PRODUCT USE

As a component of a "systems approach" to proper building envelope construction in both residential and commercial construction, **Tiger Foam 4000 Spray Foam Wall Insulation™** provides exceptional performance in reducing heat transfer, moisture gain and improving racking strength.

## PRODUCT APPLICATION

**Tiger Foam 4000 Spray Foam Wall Insulation™** should only be applied in 1" to 2" passes. This application procedure is in compliance with the SPFA foam application guidelines.

**Tiger Foam 4000 Spray Foam Wall Insulation™** is to be applied to surfaces between 40°F to 120°F. This system is NOT for use as an **EXTERIOR** roof deck system due to the light density of the product. Tiger Foam's technical service personnel should be consulted in all cases where application conditions are questionable.

The use of foamed plastic in interior applications on walls or ceilings may present an unreasonable fire hazard unless the foam is protected by an approved, fire-resistant thermal barrier which has a finish-rating of not less than 15 minutes. Building codes currently require a 15 minute thermal barrier or an ignition barrier be applied over the spray insulation. Check with local building officials for final determination.

## PRODUCT ADVANTAGES

- SEAMLESS PROTECTIVE ENVELOPE
- ELIMINATE AIR INFILTRATION
- EXCELLENT ADHESION • HIGHEST R-VALUE
- ENERGY SAVINGS • AVOIDS THERMAL BRIDGING
- MEETS CLASS I REQUIREMENTS
- PROVIDES A CONTINUOUS AIR BARRIER
- REDUCE / ELIMINATE CONVECTION CURRENTS WITHIN WALLS

## CREDENTIALS

ASTM E-84 Class I<sup>(1)</sup> (ID: FL 202.3)

- Thickness (4") Maximum • Smoke Development (450)<sup>(1)</sup>
- Flame Spread (10)<sup>(1)</sup>

*Polyurethane foam systems should not be left exposed in interior applications and must be protected by a minimum of a 15-minute thermal barrier.*

*(1) This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.*

## PHYSICAL PROPERTIES

**DENSITY:** ASTM D-1622  
@ 2" 2.10 – 2.35 @ 4" 1.88 – 1.99

**CLOSED CELL CONTENT:** ASTM D-6226 > 90%

**K-FACTOR, INITIAL:** ASTM C-518  
0.155 - 0.170

**R-VALUE:** 5.882 - 6.452

**DIMENSIONAL STABILITY:**

ASTM D-2126 (% volume change)

Dry Age – 28 days (158°F, Dry) +3.0 to +8.0

Freeze – 14 days (-20°F) 0.4 to 1.0

**SURFACE BURNING CHARACTERISTICS:**

ASTM E-84

Foam Thickness – 4"

Flame Spread – 10

Smoke Development<sup>(2)</sup> 450

**PERMEANCE / PERMEABILITY:** ASTM E-96

0.98 @ 2"

*(2) This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.*

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## MATERIAL SAFETY & HANDLING

### Storage:

Recommended storage temperature for this material is between 50°F and 80°F. Keep from freezing. The shelf life will be 3 months when stored within recommended temperature range.

### Personal Protection:

Must wear chemically protective gloves, boots, aprons and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA Eye and Face Protection regulations. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Provide mechanical local exhaust. Positive air flow hood should be worn by applicator and adjacent workers.

### FIRST AID

**Inhalation:** Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Consult a physician.

**Eye Contact:** Irrigate with water for 15 minutes. Consult a physician if irritation persists.

**Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If liquid material is swallowed, give 2 glasses of water or milk to drink and seek medical attention. Never give anything by mouth to an unconscious person. Remove stomach contents using gastric suction.



**Safety Goggles Positively Must be worn when using our products.**