TECHNICAL DATA SHEET

TIGER FOINSULATION

Fire Bock Pro Insulating Foam Sealant

Last revision: May 2013

FIRE BLOCK Expanding Polyurethane Foam Sealant is a ready - to- use polyurethane expanding foam formulated for filling, insulating and sealing gaps, cracks and openings in the interior and exterior of buildings. **FIRE BLOCK** Foam Sealant has been tested according to **ASTM E814** (modified), **ASTM 286. FIRE BLOCK** an ICC Evaluation Service approved fireblocking material per **ICC-ES Report ESR-3302**. It has excellent adhesion to most building surfaces including wood, glass, metal, masonry and plastic. It is environmentally friendly with no CFC's or CFC's or HCFC's, and it is **UL Classified**.

FEATURES

- Type V Residential Fireblock*
- Tested according to ASTM E84, ASTM E814 (modified), NFPA 286
- Product complies with International Building Code (IBC) and International Residentional Code (IRC)
 Fireblocking Requirements
- Economically Insulates, Fills, Seals and Bonds
- Excellent Sealing Against Gas and Smoke
- All-Direction Dispensing More Comfortable Application in Places that are Hard to Reach
- Durable Airtight Seal Stops Air Infiltration, Drafts and Energy Loss
- Bright Orange Color for Easy Identification
- * Tested as an approved fireblocking material for use in "non-rated" single family construction only. Not for use as a commercial firestop, check with local building code officials for acceptability

TYPICAL APPLICATIONS

Wide range of interior and exterior sealing and insulating applications such as basement areas, attic areas and around cables, pipes, vents and duct penetrations:

- Excellent to seal concealed penetrations between the floors or rooms (electrical, plumbing, HVAC installation etc.) in residential construction (type V or "combustible") to block the passage of flame and smoke.

TECHNICAL DATA

Base polyurethane
Type foam sealant
Appearance foam
Color orange

Odor odorless when cured Application temperature $32^{\circ}F-86^{\circ}F / 0^{\circ}C - 30^{\circ}C$ Can temperature min. $50^{\circ}F / 10^{\circ}C$ Tack-free time ≤ 10 min.

Tack-free time $\leq 10 \text{ min.}$ Cutting time 1" $\leq 60 \text{ min.}$

Cure in 6 h, fully cured after 24 hrs Service temperature after curing -76°F to 212°F / -60°C to 100°C

Shrinkage [after first 24 hrs] ≤ 5%

Water absorption ≤ 1,5% after first 24 hrs and then waterproof

% Closed cell content up to 60%

R Value 4 -5 per inch (typically)

Shelf life 12 months

Product size		Yields				
[oz]	[g]	[litr]	cu ft	1/2" [ft]	3/8" [ft]	1/4" [ft]
24	680	40- 45	1,41 – 1,59	1036	1842	4146

All communicated parameters were measured in compliance with Commercial Thermal Solution Inc's internal standards and depend heavily on external curing conditions, equipment quality, and adherence to application instructions. The parameters were measured in standard laboratory conditions at +73 °F (+23 °C) and 50% RH. Yield results are based on theoretical calculations for comparative analysis purposes. Results may vary depending on ambient conditions and particular application.

UL Classified

TECHNICAL DATA SHEET

TIGER

Fire Bock Pro Insulating Foam Sealant

Last revision: May 2013

Caulking and Sealants Applied to Inorganic Reinforced Cement Board+

<75NN>

SURFACE BURNING CHARACTERISTICS

Flame Spread: 15 Smoke Developed: 20

+- tested as applied in three 3/4 in. diameter beads 5 in. OC covering 12.5 percent of the exposed test sample area.

NFPA 30B Classification: Level 3 Aerosol

APPLICATION INSTRUCTIONS

Always read all operating, application, and safety instructions before using any products from Commercial Thermal Solutions, Inc. Use in conformance with all local, state, and federal regulations and safety requirements. Read all product directions and safety information before use.

Preparation

- 1. Product is **FLAMMABLE DURING DISPENSING**.
- **2.** Wear protective clothes, gloves, and eye protection. Use only in well ventilated area or wear approved respiratory equipment. Contact and application areas should be dry, clean, free of dust, oil, grease or any foreign objects, debris and contaminants that could interfere with proper adhesion. Clean and degrease surface with dedicated Cleaner, acetone, isopropanol, ethanol (metals, glass) or detergent (plastics), and let it dry completely. Surfaces must be sound and in good condition. It is recommended to lightly spray surfaces with water prior to applying foam to enhance expansion and curing properties.
- 3. For best results and maximum yield, apply at temperatures $50^{\circ}F$ to $86^{\circ}F/10^{\circ}C$ $30^{\circ}C$. Use below $32^{\circ}F/0^{\circ}C$ is not recommended.
- **4.** Shake the can vigorously for 30-45 seconds before attaching to the gun and also in-between uses.
- **5.** Remove protective cap, invert can, and screw the can firmly onto the gun do not over tighten.

Application

- 1. Maintain the can in upside-down, inverted position during the application.
- 2. Point gun in safe direction and slowly pull trigger to test dispense foam. Adjust control knob on gun handle to achieve the desired application flow.
- **3.** Fill cavities to approximately 50% full to allow for foam expansion after application. Cracks wider than 2" should be filled gradually in layers.
- **4.** Trim excess foam with sharp knife or serrated edge. Cured foam may be sanded, painted, or stained (not before 24 hrs. after application). Cured foam discolors and loses its stability and properties when exposed to UV light. Paint or coat exposed foam for best results.
- **5.** If idle for 10 or more minutes between uses, shake can vigorously 30-45 seconds before reusing.
- 6. When not in use, gun valve should be cleaned with CLEANER.

Cleaning

- 1. Clean Foam Gun thoroughly with CLEANER immediately after use to prevent foam from hardening in gun.
- **2.** Uncured Foam Clean immediately with CLEANER or acetone.
- **3.** Cured Foam if hardened on skin use an industrial cleaner with pumice. Repeat process until foam is removed. Cured foam must be mechanically removed or allowed to wear off in time.

SHELF LIFE. STORAGE AND LOGISTIC

When stored properly, shelf life is **12 months** from production date, printed on the bottom of each can. Store upright in cool and dry area at temperatures 41°F to 86°F/ 5°C to 30°C. Do not expose to open flame or temperatures above 120°F/ 50°C. Keep away from open flame.

Product code	Size	Packaging	Case Pack
Fire Block	24 Oz.(680g)	Aerosol Can	12

TECHNICAL DATA SHEET

Fire Bock Pro Insulating Foam Sealant



Last revision: May 2013

SAFETY AND WARRANTY INFORMATION

HARMFUL, CONTENTS UNDER PRESSURE. CONTAINS FLAMMABLE GAS. CONTAINER MAY BURST IF HEATED.

Shut off all gas pilot lights, electrical igniters, burners and other sources of HEAT before and during use. Do not smoke or use matches, lighters while dispensing foam Contents may burst if left in areas susceptible to extremely high temperatures. Do not place in Hot water. DO NOT PLACE OR STORE IN A CLOSED AREA SUCH AS A CAR. USE ONLY IN WELL VENTILATED AREAS. AVOID CONTACT WITH SKIN OR EYES. WEARING PROTECTIVE EYEWEAR AND GLOVES IS RECOMMENDED. DO NOT BREATHE VAPOR/SPRAY. DO NOT INCINERATE, PUNCTURE, OR EXPOSE CAN TO DIRECT SUNLIGHT FOR LONG PERIODS OR STORE AT TEMPERATURES OVER 120°F/50°C. KEEP OUT OF REACH OF CHILDREN.

FIRST AID: In case of eye contact, flush **immediately** with water for 15 minutes and **get medical help**. If inhalation causes physical discomfort, move to fresh air. If discomfort persists or any breathing difficulty occurs, **get medical help**. If swallowed, drink large quantities of water. DO NOT induce vomiting. **GET PHYSICIAN ASSISTANCE IN ALL CASES.** Cured foam is not harmful to health.

INGREDIENTS: polymeric diisocyanate, polyols, hydrocarbon gas mixture.

Always read all operating, application, and safety instructions before using any products from Commercial Thermal Solutions, Inc. Use in compliance with all local, state, and federal regulations and safety requirements. Read all product directions and safety information before use.

DISPOSAL OF PRODUCT AND CONTAINERS: Each person, firm, or corporation engaged in the application, installation, disposal, or any other use of these materials shall carefully and precisely determine all potential hazards associated with such products in specific usage, and utilize all appropriate precautionary and safety measures as outlined in local, state, and federal regulations governing the use or disposal of product or empty containers.

LIMITED WARRANTY: Commercial Thermal Solutions, Inc. warrants its products to be free of manufacturing defects due to workmanship and materials for the duration of and in accordance to the conditions stated in the individual Technical Data Sheets. This warranty is limited to the replacement of the product when such product proves to be defective in manufacture. This accordance for its intended purposes. It express warranty will only apply if the product is stored as specified and used in does not apply to failures due to improper application. Commercial Thermal Solutions, Inc. disclaims all other warranties, expressed or implied, as well as liability for any incidental or consequential damages. The liability extent of both manufacturer and seller is limited to replacement of product only.

With the publication of this Technical Data Sheet, previous editions are no longer valid. Due to continuous product and process improvements, specifications and prices are subject to change without notice.

Commercial Thermal Solutions, Inc. shall not be liable, in any event for any incidental, consequential, special, or indirect damages or damages to a structure or its contents from any cause whatsoever. This warranty may not be modified or amended by any employee, representative agent or customer of Commercial Thermal Solutions, Inc. This warranty is exclusive and is in lieu of all other warranties, express, or implied, including any implied warranty of merchantability or fitness for particular purpose. The extent of liability for breach of such warranty is limited to replacement of product only.