

TECHNICAL DATA SHEET TIGER FOAM® IGNITION BARRIER



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TIGER FOAM® IGNITION BARRIER is an intumescent, latex based coating used in combination with Tiger Foam® E84 Class 1 Spray Foam System (SPF) in applications that require an ignition barrier. Tiger Foam® Ignition Barrier acts as a shield protecting the substrate from exposure or propagation of flame by surrounding the spray foam with a protective char-barrier.

Tiger Foam® Ignition Barrier is supplied in 5-gallon (19 L) pails.

Use

Applied to open or closed cell spray polyurethane foam.

Application

Prior to the application of Tiger Foam® Ignition Barrier, the surface must be free from all deposits, including dust, dirt, oil, paint flakes scales, wax, etc. for the product to adhere properly to the substrate. Tiger Foam® Ignition Barrier should be at or above 40° F (5°C), prior to and during application. The cured foam surface to be treated should be at or above 40° F (5°C), prior to and during application. Moisture content of the substrate must not exceed 19 percent during the application of Tiger Foam® Ignition Barrier.

Apply the Tiger Foam® Ignition Barrier using an airless sprayer, roller, or brush, evenly coating the substrate. The entire surface is to be covered with 10 wet mils of coating. When using an airless sprayer, it is commonly recommended that the spray equipment be capable of producing a minimum of 3300 psi of pressure and that it can accommodate the recommended tip orifice sizes of .025-.031. It is further recommended that the filters be removed from both the spray gun and the pump to allow for the passage of solid content. The most common tip for applying Tiger Foam® Ignition Barrier over spray polyurethane foam (SPF) or similar applications is 527, but variations in spray pattern width and tip size may be required depending on the surface area and the substrate to which the product is being applied.

Coverage rate of 90-300 square feet per gallon. Drying time is typically between 60-90 minutes. Allow Tiger Foam® Ignition Barrier to dry completely between coats, if more than one coat is required.

Application Areas

The building codes require that Spray Polyurethane Foam (SPF) used in attics and crawlspaces (unoccupied and not used for storage) must meet ignition barrier requirements prescribed by the code. Specific ignition barriers are listed in the code, but under qualifying conditions (AC377 appendix X) a non-prescriptive ignition barrier can be used. Tiger Foam® Ignition Barrier and Tiger Foam® E84 Class 1 Spray Foam System (SPF) have been tested according to AC377 appendix X.

Qualifying Conditions

Tiger Foam® E84 Class 1 Spray Foam System (SPF) and Tiger Foam® Ignition Barrier can only be used in areas that meet the following qualifying conditions:

- Attic & Crawlspace entry is made only for the service of utilities
- There are no interconnected attic or basement areas
- Air is not circulated to other parts of the building
- Combustion air is provided in accordance with IMC section 701
- Ventilation is provided when required by IBS Section 1203.2 or IRC section R806, or as required, except when air impermeable insulation is permitted in unvented attics in accordance with IRC Section R806.4

Physical Properties

See technical data table on the second page.

Preparation For Use

After application of Tiger Foam® E84 Class 1 Spray Foam System (SPF) wait for one hour before applying Tiger Foam® Ignition Barrier to all exposed cured foam surfaces. Use Tiger Foam® Ignition Barrier as is; DO NOT DILUTE. Prior to the application the cured foam surface should be free from moisture and all deposits, including dust, dirt, oil, paint flakes, scales, wax, etc. for the product to adhere properly.

Mixing

Tiger Foam® Ignition Barrier has a high solids content that must be suspended evenly throughout the mixing process, and it **must be thoroughly mixed before use**. Mix with a rotary mixer or drill, utilizing a power mixer wand, at or between 300-500 rpm, for a mixing time of 20 minutes per 5-gallon pail or use a Squirrel™ 5 gallon power mixing wand or equivalent at or between 500-1500 RPM for a mixing time of 5 minutes per pail.

Shaking Tiger Foam® Ignition Barrier with a paint shaker or paint mixer is NOT sufficient.

If Tiger Foam® Ignition Barrier is mixed more than 24 hours prior to use, mix it again before using.

Training

Commercial Thermal Solutions, Inc. highly recommends completing No-Burn®'s comprehensive online training program prior to using Tiger Foam® Ignition Barrier. The training program can be accessed at <http://noburn.com/tigerfoam>.

Important Note: Use only in well-ventilated areas. If spraying, wear certified respiratory protection or a powered air purifying respirator (PAPR). Wear safety glasses or goggles, gloves, and clothing that protects against exposure. Read all instructions and safety information (MSDS) prior to use of any product. The MSDS can be found at www.tigerfoam.com.

KEEP OUT OF REACH OF CHILDREN

Product Application, Storage and Transportation Temperature

Store, use or transport at a minimum of 40°F (5°C) or a maximum of 90°F (32°C) and keep out of direct sunlight. **Do NOT allow product to freeze. Do not store, ship, or apply Tiger Foam® Ignition Barrier below 40°F (5°C).**

Disposal Procedures

DISPOSE OF EMPTY PAILS ACCORDING TO APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

CHECK WITH YOUR LOCAL WASTE DISPOSAL SERVICE FOR GUIDANCE.

Pails and lids are recyclable HDPE 2 plastic. Check with your local waste disposal for recycling guidance.

Note:

The manufacturer warrants only that the product shall meet its specifications when stored, mixed and applied in accordance with published directions.

TECHNICAL DATA

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| Color | Opaque/White |
| Volatile Organic Content (VOC) | 18 grams per liter (g/L) |
| Cure Time | 24 hours |
| Fire Rating NFPA 286 Tested with Tiger Foam® E84 Class 1 (SPF) | Pass |
| Drying Time | 60-90 minutes |
| Shelf Life | 36 months |

THEORETICAL YIELD*

| Non-Refillable | Coverage | Weight |
|---------------------|------------------|--------|
| 5 Gallons TF1000OCT | 450 – 1500 sq ft | 55 lbs |
| 10 wet mil coating | 800 sq ft | 55 lbs |
| 12 wet mil coating | 670 sq ft | 55 lbs |

*Yields are based on theoretical calculations, for comparative purposes, and will vary depending on ambient conditions and particular application.

PROCESSING PARAMETERS*

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|----------------------------|-----------------------|---------------------|
| Product Storage | 40°F - 90°F (5°-32°C) | Store in a dry area |
| Application Temperature | 40°F - 90°F (5°-32°C) | For best results |
| Transportation Temperature | Minimum of 40°F (5°C) | |

*Do not use if stored or transported below 40°F (5°C).

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. Failure to strictly adhere to any recommended procedures and reasonable safety precautions shall release Commercial Thermal Solutions, Inc. from all liability with respect to the materials or use thereof.

Note: Physical properties shown are typical and serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions and may vary upon use, temperature, and ambient conditions. Right to change physical properties as a result of technical progress is reserved. This information supersedes all previously published data. Yields shown are based on theoretical calculations and will vary depending on ambient conditions and particular application. Read all product directions and safety information before use. Consult local building codes for specific requirements regarding the use of cellular plastics or urethane products in construction.

Limited Warranty: The Manufacturer warrants only that the product shall meet its specifications: this warranty is in lieu of all written or unwritten, expressed, or implied warranties and the Manufacturer expressly disclaims any warranty of merchantability, or fitness for a particular purpose. Warranty coverage is limited solely to the cost of product purchased hereunder and specifically excludes incidental expenses and consequential damages. The buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence, or other claim shall be limited to the replacement of the material. Failure to strictly adhere to any recommended procedures shall release the Manufacturer from all liability with respect to the materials or use thereof. User of this product must determine suitability for any particular purpose, including, but not limited to, structural requirements, performance specifications, and application requirements.