

# TECHNICAL DATA SHEET



FOR PROFESSIONAL USE ONLY

## Handi-Foam® Ignition Barrier



**Handi-Foam® Ignition Barrier** is an intumescent, latex based coating used in combination with Handi-Foam® E84 Class 1 Low Pressure Spray Polyurethane Foam (SPF) in applications that require an ignition barrier. Handi-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.

### 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. Handi-Foam® Ignition Barrier and Handi-Foam® E84 Class 1 Low Pressure Spray Polyurethane Foam (SPF) have been tested according to AC377 appendix X.

### Qualifying Conditions

Handi-Foam® E84 Class 1 Low Pressure Spray Polyurethane Foam (SPF) and Handi-Foam® Ignition Barrier can only be used in areas that meet the following qualifying conditions:

- Attic & Crawlspaces 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 IBC 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 Handi-Foam® E84 Class 1 Low Pressure Spray Polyurethane Foam (SPF) wait for one hour before applying Handi-Foam® Ignition Barrier to all exposed cured foam surfaces. Handi-Foam® Ignition Barrier, the ambient temperature and the cured foam surface should be at a minimum of 40°F (5°C) before application. Use Handi-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

Handi-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. Using a paint shaker or paint mixer is **NOT** sufficient. If Handi-Foam® Ignition Barrier is mixed more than 24 hours prior to use, mix it again before using.

Handi-Foam® Ignition Barrier may be tinted at a maximum concentration of 2oz of tint per gallon.

### Use

Apply the Handi-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 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 Handi-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 Handi-Foam® Ignition Barrier to dry completely between coats, if more than one coat is required.

### Training

Fomo Products highly recommends completing No-Burn®'s comprehensive online training program prior to using Handi-Foam® Ignition Barrier. The training program can be accessed at <http://noburn.com/fomoproducts>.

**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.fomo.com](http://www.fomo.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 Handi-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.

**Fomo Products, Inc.**  
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management system registered to ISO 9001



2775 Barber Road PO Box 1078 Norton, Ohio 44203 USA  
p: 1 330.753.4585 1 800.321.5585 f: 1 330.753.5199  
e: [info@fomo.com](mailto:info@fomo.com) w: [www.fomo.com](http://www.fomo.com)

## Technical Data

<b>COLOR</b>	Opaque/White
<b>VOLATILE ORGANIC CONTENT (VOC)</b> EPA METHOD 24	18 grams per liter (g/L)
<b>CURE TIME</b>	24 hours
<b>FIRE RATING</b> NFPA 286 Tested with Handi-Foam® E84 SPF	Pass
<b>DRYING TIME</b>	60-90 minutes
<b>SHELF LIFE</b>	36 months

## Approvals / Standards

Handi-Foam® E84 Class 1 Spray Foam and Handi-Foam® Ignition Barrier pass NFPA 286 (modified).

ICC ES Report ESR-2717 (evaluation renewal will include Handi-Foam® Ignition Barrier.) Handi-Foam® Ignition Barrier and Handi-Foam® E84 Class 1 Low Pressure Polyurethane Spray Foam (SPF) has been tested according to NFPA 286 Appendix X (AC377). Test report available upon request.

## Theoretical Yield\*

Non-Refillable	Coverage	Weight
5 Gallons M10000	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\*

Product Storage	40°F –90°F (5°C –32°C)	Store in a dry area
Application Temperature	40°F (5°C)- 90°F (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.** 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 Fomo Products, Inc. of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call Fomo Products, Inc. 1 330.753.4585 or 1 800.321.5585.

**NOTE:** Physical properties shown are typical and are to 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.

**WARNINGS:** Follow safety precautions and wear protective equipment as recommended. Consult Material Safety Data Sheet (MSDS) at [www.fomo.com](http://www.fomo.com) for specific information. Prolonged inhalation exposure may cause respiratory irritation. Use only in a well ventilated area and with certified respiratory protection. NIOSH approved positive pressure supplied air respirator is recommended if application is in a confined space or is an area with little or no ventilation (see MSDS). Wear safety glasses or goggles, gloves, and clothing that protects against dermal exposure when operating. If liquid chemical comes in contact with skin, first wipe thoroughly with dry cloth, then rinse affected area with water. Wash with soap and water afterwards. If liquid comes in contact with eyes, immediately flush with large volume of clean water for at least 15 minutes and get medical help at once. If liquid is swallowed, get immediate medical attention. Do not induce vomiting. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. Products manufactured or produced from these chemicals are organic and, therefore, combustible. Each user of any product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage. **KEEP OUT OF REACH OF CHILDREN.**

**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. 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 of all liability with respect to the materials or the 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 prior to installation and after product is applied.



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Fomo Products, Inc. p: 1 330.753.4585, 1 800.321.5585 f: 1 330.753.5199  
e: [info@fomo.com](mailto:info@fomo.com) w: [www.fomo.com](http://www.fomo.com)