

TECHNICAL DATA SHEET

FOR PROFESSIONAL USE ONLY



Sound Barrier Spray Foam



Handi-Foam® Sound Barrier Spray Foam is a multiple purpose open cell, low density polyurethane spray foam that utilizes a non-flammable blowing agent. Handi-Foam® Sound Barrier Spray Foam is excellent for sound deadening and reducing noise levels.

Application Areas

Spray foam onto any clean, dry surface in any direction to insulate, fill and seal various size voids, deaden sound or reduce vibration. It is specifically designed to spray onto flat or irregular surfaces and to fill large cavities. Handi-Foam® Sound Barrier Spray Foam has a free-rise density of 0.75 lbs/ft³ (see page 2 for complete technical data and system availability). This product is not recommended for “flash and batt” (i.e. “hybrid”) applications.

Properties

Two-component, low density, open cell froth foam systems expand rapidly upon chemical reaction of A component and B component. The foam will cure to a semi-rigid open cell foam upon reaction of the A component (a polymeric isocyanate) and B component (a polyol blend containing certain additives).

Handi-Foam® Sound Barrier Spray Foam fully expands and dries tack-free within 30-45 seconds, and fully cures within 1 hour.

Handi-Foam® Sound Barrier Spray Foam adheres to almost all building materials with the exception of surfaces such as polyethylene, Teflon®, polypropylene, silicone, oils, greases, mold release agents and similar materials.

Optimum application temperature is 90°F (32.2°C) but may be sprayed onto colder or warmer substrates, with slight effects on the foam characteristics. Cured foam is resistant to heat and cold, -200 to +240°F (-129 to +115°C), and to aging, but not UV rays (i.e. sunlight) unless painted, covered or coated. Cured PU foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylene (i.e. PEX), CPVC or other plastic. It is approved for use around wires, plumbing penetrations, etc., and contains no added formaldehyde.

Handi-Foam® Sound Barrier Spray Foam systems are available in three non-refillable sizes to meet specific job applications requirements. When sprayed, the foam will create a seamless, continuous seal to insulate and protect against dust, air infiltration and pests.

Physical Properties

See technical data table on the second page.

Preparation For Use

Substrate must be clean, dry, firm, free of loose particles and free of dust, grease and mold release agents. Protect surfaces not to be foamed.

Shake kits well *before* using (applicable to non-refillable systems).

Read the enclosed operating instructions available in every kit or they can be found on our website www.fomo.com. Carefully read all cautions and warnings before use. Always refer to the local building codes before application of product.

Use

Warm tanks to 85°F-95°F (29°C-35°C). After following instructions for set-up, attach appropriate hose to tanks A and B if needed (II-1350 size). Shake kits well before using. Open tank valves as directed. Materials are

dispensed through the hoses. Attach the static cone nozzle to the end of the dispensing unit. The A-component and the B-component meet and mix in the disposable nozzle. With a nozzle attached to the two-component froth dispensing unit, dispense foam by squeezing the trigger of the unit. To interrupt or stop foaming process, release the trigger. Once foaming process has stopped, the dispensing unit must be reactivated within 30 seconds or a new nozzle **must** be installed. Fresh foam may be applied in several stages to reduce overfilling of void or damage to non-rigid, confined cavities. Cured foam can only be removed manually.

Important Note: Use only in well-ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Read all instructions and safety information (MSDS) prior to use of any product. The MSDS can be found at www.fomo.com or inside the box. The product contains no added formaldehyde. Cured foam is non-toxic. The urethane foam produced from these ingredients will support combustion and may present a fire hazard if exposed to a fire or excessive heat about 240°F (116°C).

KEEP OUT OF REACH OF CHILDREN.

Product Storage

Store in a dry area. Do not expose the kit or tanks to open flame or temperatures above 120°F (49°C). Excessive heat can cause premature aging of components resulting in a shorter shelf life. Handi-Foam® Sound Barrier Spray Foam is reusable by following product instructions.

Cold Weather Note: For best results, foam chemical temperature must be between 85°F-95°F (29°C-35°C) Warm kits for a minimum of 1 day at room temperature.

Disposal Procedures

1. DO NOT INCINERATE TANKS.
2. After tanks are empty, the hose must be removed and the tanks must be vented. **CAUTION:** Tanks will still be under pressure. Turn valves to the off position before removing hoses. Protective glasses or goggles, nitrile gloves, clothing that protects against dermal exposure and a certified respirator must be worn during this procedure. With tank inverted, slowly open tank valve, point tank away from face and allow pressure to completely vent. **CAUTION:** Empty tank could contain potential vapor toxicity hazard. Dispose cylinders in a well ventilated area with certified respiratory protection. (Consult MSDS).
3. DISPOSE OF EMPTY CYLINDERS ACCORDING TO APPLICABLE FEDERAL, STATE, LOCAL AND PROVINCIAL REGULATIONS. **CHECK WITH YOUR LOCAL WASTE DISPOSAL SERVICE FOR GUIDANCE.**

Fomo Products, Inc.
A Member of the FLM Group of Companies
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 w: www.fomo.com

Technical Data

DENSITY

ASTM D1622 Free Rise 0.75 lb/ft³ (12 kg/m³)

K-FACTOR

ASTM C518 - Aged 90 days at 140°F 0.270 BTU·inch / ft²·h·°F (0.037 W/m·K)

R-VALUE (Metric RSI in parentheses)

Aged 28 days at 70°F 3.7 at 1" thickness

AIR BARRIER PROPERTIES

ASTM E283
@ 1.57 psf (75 Pa) <0.0025 cfm/ft² (<0.0125 L/s/m²)
@ 6.24 psf (300 Pa) <0.01 cfm/ft² (<0.05 L/s/m²)

PERM RATING

ASTM E96-Method A
1" (2.54 cm) 31 perms
3" (7.62 cm) 16 perms

DIMENSIONAL STABILITY

ASTM D2126
HEAT AGE: +158°F (70°C)
HUMID AGE: +158°F (70°C), 100% RH <5 % change for all conditions
COLD AGE: -4°F (-20°C)

CLOSED CELL CONTENT

ASTM D2856 5%

TACK-FREE / EXPANSION TIME

30 - 45 seconds

CUTTABLE

3-5 minutes

FULLY CURED

1 hour

SOUND TRANSMISSION CLASS NOISE REDUCTION COEFFICIENT

STC 35
NRC .70

FIRE RATING

ASTM E84
Tested at 4" thickness
Flame Spread Index = 50
Smoke Developed =450

Approvals / Standards

Handi-Foam® Sound Barrier Spray Foam conforms to the requirements of ASTM E84 as a "Class 2" material. Tested at 4" thickness.

Flame Spread 50 Smoke Developed 450

The **STC rating** indicates how well a wall assembly blocks airborne sound. Our wall assembly was comprised of 5/8" OSB (exterior), one layer of type X gypsum wall-board (interior), 2" x 4" studs with 3 inches of Handi-Foam® Sound Barrier Spray Foam.

The **NRC** is a single number index for rating how absorptive a material is. Handi-Foam® Sound Barrier Spray Foam has an NRC of .70 at 3 inches in thickness. It will absorb 70% of the sound that comes into contact with it and will reflect 30% of the sound back into space.

Theoretical Yield*

| Non-Refillable | Board Feet | Cubic Feet |
|----------------|------------------------------|------------------------------|
| II-250 P10697 | 250 (23.2 m ²) | 20.8 (.58 m ³) |
| II-450 P10714 | 450 (41.8 m ²) | 37.5 (1.06 m ³) |
| II-1350 P10747 | 1350 (125.5 m ²) | 112.5 (3.18 m ³) |

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

Processing Parameters

| | | |
|-------------------------|--------------------------|---------------------|
| Product Storage* | <120°F (49°C) | Store in a dry area |
| Application Temperature | 40°F (5°C)- 120°F (49°C) | For best results |
| Chemical Temperature | 85-95°F (29-35°C) | |

* For best results, warm kit for a minimum of 1 day at 85-95°F (29-35°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 for specific information. Prolonged inhalation exposure may cause respiratory irritation/sensitization and/or reduce pulmonary function in susceptible individuals. Onset may be delayed. Pre-existing respiratory conditions may be aggravated. Use only in a well ventilated area and with certified respiratory protection. NIOSH approved positive pressure supplied air respirator is recommended if exposure guidelines may be exceeded (see MSDS). Contents may be very sticky and irritating to skin and eyes, therefore wear safety glasses or goggles, nitrile 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, and apply hand lotion if desired. 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.



Two-Component Sound Barrier Spray Foam

Fomo Products, Inc. p: 1-330-753-4585, 1-800-321-5585 f: 1-330-753-5199
e: info@fomo.com w: www.fomo.com