



# TECHNICAL DATA SHEET

## HANDI-FOAM® LOW DENSITY LOW PRESSURE SPRAY FOAM

### LOW PRESSURE SPRAY POLYURETHANE FOAM INFORMATION

<b>Description</b>	Low pressure, low density, two-component spray polyurethane foam
<b>SPF</b>	Spray Polyurethane Foam
<b>Applications</b>	Designed to fill and seal various size voids, deaden sound or reduce vibration.
<b>Preparation for use</b>	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.
<b>Use</b>	Warm/Cool chemicals to 75-85°F (24-29°C). Follow instructions for set-up found in the operating instructions.
<b>PPE</b>	<p>Use only in a 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 SDS prior to use of any product.</p>
<b>Note</b>	FOR PROFESSIONAL USE ONLY. Always check the local building code before use. Cured low pressure polyurethane foam is non-toxic and inert.
<b>Temperature</b>	See chart on page 2
<b>Disposal</b>	Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders in accordance with all applicable federal, state, provincial and local regulations.
<b>Shelf-life</b>	12 months
<b>Compatibility</b>	Cured low pressure polyurethane foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylene (i.e. PEX) or other plastics. The product is not resistant to UV rays, if left exposed the product should be coated or painted.
<b>Product Storage</b>	Store in a dry area. Do not expose the kits or cylinders to open flame or temperatures above 122°F (50°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life.

TECHNICAL DATA	STANDARD	RESULTS
<b>Density</b> Free Rise	ASTM D1622	.75 lbs/ft <sup>3</sup> (12 kg/m <sup>3</sup> )
<b>Density</b> In-place		1.12 lbs/ft <sup>3</sup> (18 kg/m <sup>3</sup> )
<b>K-factor</b> - Aged 90 days 140°F (60°C)	ASTM C518	0.233 BTU·inch/ft <sup>2</sup> ·h·°F
<b>R-Value</b> - Aged 90 days 140°F (60°C)	ASTM C518	4.3 at 1 inch thickness
<b>Air Barrier Properties</b> -Estimated	ASTM E283	
@1.57 psf (75 Pa)		<0.0025 cfm/ft <sup>2</sup> (<0.0125 L/s/m <sup>2</sup> )
@6.24 psf (300 Pa)		<0.01 cfm/ft <sup>2</sup> (<0.05 L/s/m <sup>2</sup> )
<b>Compressive Strength</b>	ASTM D1621	<5 lbf/in <sup>2</sup> (35 kPa)
<b>Dimensional Stability</b>	ASTM D2126	+/- 5%
<b>Tack-Free/Expansion Time</b>	Tack-Free/Expansion Time	30-45 seconds
<b>Closed-Cell Content</b>	ASTM D2856	5%
<b>Cutable</b>		3-5 minutes
<b>Fungi Resistance</b>	ASTM G21	No Growth
<b>Fire Rating</b> - Tested at 4" Thickness	ASTM E84	Flame Spread Index 50 Smoke Developed 400

**APPROVALS/STANDARDS/CLASSIFICATIONS**

<b>ASTM E84</b>	Conforms to the requirements of ASTM E84 and is classified as a class 2 (B) material. Tested at 4 inch thickness	<b>GREENGUARD</b>
<b>Made in Akron, Ohio</b>		



**TEMPERATURE**

<b>Chemical Storage Temperature</b>	Optimum 75-85°F (24-29°C) but not <60°F (16°C) or >90°F (32°C)
<b>Outside Application Temperature</b>	40-100°F (4-38°C)
<b>Process Core Chemical Temperature</b>	75-85°F (24-29°C)
<b>Surface Temperature (Substrate)</b>	40-100°F (4-38°C)
<b>Cured Foam</b>	200°F to 240°F (129°C to 116°C)

**YIELD<sup>1</sup> (.75 Density)**

	<b>Weight</b> (Including packaging)	<b>Board Feet</b>	<b>Cubic Feet</b>
<b>II-450 P10694</b>	41 lbs	450 (41.8 m <sup>2</sup> )	37.5 ft <sup>3</sup> (1.06 m <sup>3</sup> )
<b>II-1350 P10770</b>	115.7 lbs	1350 (125.5 m <sup>2</sup> )	112.5 ft <sup>3</sup> (3.18 m <sup>3</sup> )

<sup>1</sup> Yield is based on free-rise density. We state our core density/free-rise density when describing the foam. Applying foam into a cavity may result in higher in-place densities due to packing effects. These higher densities may result in lower yields.

**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. The Customer is responsible for deciding whether products and associated TDS information are appropriate for customer's use.

Handi-brand® low pressure one-component polyurethane foam sealants and adhesives (OCF), low pressure spray polyurethane foams (SPF), and low pressure pour-in-place polyurethane foams (PIP) are composed of a diisocyanate, hydrofluorocarbon or hydrocarbon blowing agent, and polyol. For polyurethane foam sealants/adhesives: wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Use only in a well-ventilated area. Avoid breathing vapors. Read the SDS and instructions carefully before use ([www.fomo.com](http://www.fomo.com)). For spray polyurethane foams and pour-in-place polyurethane foams: wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Use only in a well-ventilated area and with certified respiratory protection or a powered air purifying respirator (PAPR). Additional information on ventilation can be found in the Product Stewardship Guide ([www.fomo.com](http://www.fomo.com)). Read the SDS ([www.fomo.com](http://www.fomo.com)) and instructions carefully before use. 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). Refer to each product's TDS for specifications, testing results, and other attributes. The customer is ultimately responsible for deciding whether products and associated TDS information are appropriate for customer's use. Refer to the products' SDS, Fomo's Product Stewardship Guidelines, and operating instructions for guidance on the safe and proper application of the product ([www.fomo.com](http://www.fomo.com)). For professional use only. Building practices unrelated to materials can lead to potential mold issues. Material suppliers cannot provide assurance that mold will not develop in any specific system.

**WARNINGS:** Follow safety precautions and wear protective equipment as recommended. 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. Contents may be very sticky and irritating to skin and eyes, therefore wear safety glasses with side shields 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.

