

# TECHNICAL DATA SHEET



## Gun Foam One-Component Polyurethane Foam

**Handi-Foam® Gun Foam** is a multiple purpose UL classified one-component polyurethane foam designed within the international guidelines for protection of the ozone layer, and with respect to the Montreal Protocol, 1987 and other environmental guidelines, utilizing a non-flammable blowing agent to assist in the safety of the end user. It is designed to be dispensed through any of the professional one-component dispensing units specifically designed for dispensing Handi-Foam® Gun Foam.

### Application Areas

Handi-Foam Gun Foam is engineered for a clean and metered application of one-component polyurethane foam, filling and sealing of joints, insulating and filling in wall gaps and cavities, etc. Additional usages include fastening wood door frames and sticking and joining of insulation panels. Dispensing units are specifically designed to dispense a controllable bead with minimum waste and easy cleaning for filling cracks, crevices, and to fill smaller cavities on flat or irregular surfaces.

### Properties

Handi-Foam Gun Foam dries tack-free within 5 minutes depending on moisture and temperature conditions. A one inch bead at room conditions is cuttable within one hour.

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

All Handi-Foam dispensing units are easy to operate and are designed for professional use. Handi-Foam® Polyurethane Cleaner (P10083) has a multipurpose valve designed for either dissolving uncured foam from external parts or cleaning dispensing units.

Optimal application temperature is between 65-100°F (18-38°C) and may be used between 40-115°F (4-46°C). Cured foam is resistant to heat and cold, -200-200°F (-129-+93°C), and to aging, but not UV rays (i.e. sunlight) unless painted, covered or coated. Cured foam is also chemically inert and non-reactive in approved applications.

Handi-Foam Gun Foam requires no outside mechanical or electrical power source and is disposable. Handi-Foam Gun Foam systems are available in various container sizes to meet specific job application requirements. When applied, the foam will seal, insulate, bond, and protect against dust, air infiltration, pests, etc.

### Preparation For Use

Read all applicable instructions for the dispensing unit and foam systems, which are included with each product, prior to any use. Substrate must be clean, firm, free of loose particles and free of dust, grease and mold release agents. Protect surfaces not to be foamed.

Screw the can onto the gun coupling, with valve upright, until it will go no further. Do not over tighten. Once attached, grip the can and the unit with both hands and shake well (15-20 times). Immediately pull the dispensing gun trigger to fill the unit with foam sealant. Adjust the larger metering screw to the required extrusion rate / bead size.

### Application/Use

After following instructions for set-up, the dispensing unit is ready to use. The foam sealant flow can be metered by pulling the gun trigger for the desired extrusion rate. Foam application can be interrupted when needed as outlined in the instructions and the dispensing unit will be ready for immediate use, as long as it remains attached to a pressurized container. Empty gun foam container must be replaced immediately with a new container. Filling excessively large cavities can result in a prolonged curing process, and insufficient air or substrate moisture during cure may cause delayed expansion.

Remove fresh foam over spray with Handi-Foam Polyurethane Cleaner or solvents such as acetone. Cured foam can only be removed mechanically. The multi-purpose Handi-Foam Polyurethane Cleaner product is also designed for cleaning the dispensing unit internally for long term storage and application interruptions.

**Important Note:** Use only in well ventilated areas. Wear impervious gloves, eye protection, and protective clothing when using. Read all instructions and safety information (MSDS) prior to use of any product. The product contains no formaldehyde. Cured foam is non-toxic. KEEP OUT OF REACH OF CHILDREN.

### Product Storage

Store in cool, dry area. Do not expose 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 is reusable by following product instructions. Always store gun with a pressurized container attached to assure correct function of the dispensing unit.



**Fomo Products, Inc.**  
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## Technical Data

<b>CORE DENSITY</b>	1.1 lbs / ft <sup>3</sup> (17.6 kg/m <sup>3</sup> )
<b>R-VALUE</b>	4-5 per inch (.03 w/m.k) typically
<b>CLOSED CELL CONTENT</b> ASTM D-2856	> 70%
<b>TACK-FREE TIME</b> 70°F (21°C), 60% RH	Approx. 5 min.
<b>CURE TIME</b>	12 - 24 hours
<b>CUTTABLE</b> (1" BEAD AT ROOM CONDITIONS)	<1 hour

## Approvals / Standards

Handi-Foam One-Component Gun Foam is approved by the following Classifications, Codes and Standards:

UL Classified - File # R13919 Caulking and Sealants  
ASTM E-84 (12.5%)  
Flame Spread 25  
Smoke Developed 50

ODP (Ozone Depletion Potential): Contains HCFC 22 propellant.  
Consult MSDS for reporting requirements.

VOC Content: Contains no VOC's.

NFPA 30B Classification: Level 1 Aerosol

## Theoretical Yield\*

Product	Bead Size			VOLUME
	1/4" (6.3mm)	3/8" (9.5mm)	1/2" (12.7mm)	
<b>24 oz.</b> <b>(680g)</b> P10115	3820 ft (1164m)	1700 ft (519m)	960 ft (292m)	1.36 ft <sup>3</sup> (38.6 liters)
<b>31 oz.</b> <b>(880g)</b> P10290	4960 ft (1513m)	2200 ft (672m)	1240 ft (379m)	1.76 ft <sup>3</sup> (49.9 liters)

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

**Always read all operating, application and safety instructions before using any products from Fomo Products, 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 Fomo Products 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. (330) 753-4585.

**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) for specific information. Use only with adequate ventilation or 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, impervious gloves, and adequate clothing 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. 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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