

TECHNICAL DATA SHEET



Handi-Foam® Extreme Polyurethane Gun Foam

Handi-Foam® Extreme Polyurethane 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. The product was formulated specifically for use in extreme temperatures and low humidity conditions. It is designed for maximum performance when dispensed through any of the professional one-component dispensing units specifically designed for dispensing Handi-Foam Extreme Polyurethane Gun Foam. Refer to the "Product Storage and Special Handling" sections of this document for information regarding the use of flammable aerosol propellants.

Application Areas

Handi-Foam Extreme Polyurethane Gun Foam is engineered for a clean and metered application of one-component polyurethane foam, and is ideal for the contractor working in cold winter climates or dry desert heat. Handi-Foam is used for filling and sealing of joints and filling in wall gaps and cavities, etc. Dispensing units are specifically designed to dispense a controllable bead with minimum waste and easy cleaning for filling cracks, crevices, and smaller cavities on flat or irregular surfaces.

Properties

Handi-Foam Extreme Polyurethane Gun Foam dries tack-free in approximately 5 to 10 minutes depending on moisture and temperature conditions. A one inch bead at room conditions is cuttable within one hour and fully cured within 12-24 hours.

Handi-Foam Extreme Polyurethane Gun Foam adheres to almost all building materials with the exception of surfaces such as polyethylene, 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-Cleaner™ (P10083) has a multi-purpose valve designed for either dissolving uncured foam from external parts or cleaning dispensing guns.

Optimum application temperature is between 65-80°F (18-27°C), however Handi-Foam Extreme Polyurethane Gun Foam will cure in temperatures below 0°F (-18°C), and will provide a high flow rate and unsurpassed performance in cold temperature, due to the low viscosity and robust formulation. 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 PU foam is

chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylene or other plastic (i.e. PEX, CPVC). It is approved for use around wires, plumbing penetrations, etc., and contains no formaldehyde.

Handi-Foam Extreme Polyurethane Gun Foam systems require no outside mechanical or electrical power source and are disposable. When applied, the foam will seal, 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. Substrate must be clean, firm, free of loose particles and free of dust, grease and mold release agents and similar material. Protect surfaces not to be foamed.

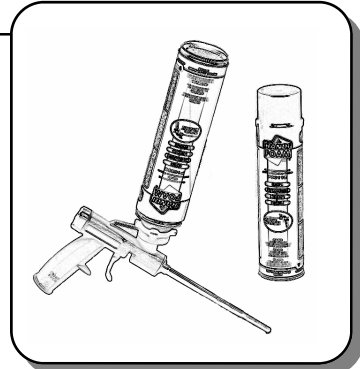
Screw the can onto the unit coupling, with valve upright, until it will go no further. Do not overtighten. Once attached, grip the can and unit with both hands and shake well (15-20 times). Immediately pull the dispensing units trigger to fill the dispensing unit with foam sealant. Adjust the larger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

Application / Use

After following instructions for set-up, the dispensing unit is ready to use. Empty gun foam container must be replaced immediately with a new container. Filling excessively large cavities can result in a prolonged curing process. Also, insufficient air or substrate moisture during cure may cause delayed expansion.

Remove fresh foam overspray with Handi-Cleaner Polyurethane Cleaner (P10083) or solvents such as acetone. Cured foam can only be removed mechanically. The multi-purpose Handi-Cleaner is also designed for cleaning the dispensing unit internally for long-term storage and application interruption.

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Technical Data

CORE DENSITY	1.00 lbs. / ft. ³ (16.0 kg./m. ³)
R-VALUE	4-5 per inch (.03 w./m.k.) typically
Closed Cell Content ASTM D-2856	>70%
RSI (METRIC R-VALUE)	(0.7-0.8/inch, 0.005-0.006/mm)
AIR BARRIER PROPERTIES ASTM E-283 @6.24 psf (300 Pa) @1.57 psf (75 Pa), extrapolated	<0.01 cfm/ft ² (0.05 L/s/m ²) <0.0025 cfm/ft ² (0.0125 L/s/m ²)
TACK-FREE TIME 70°F (21°C), 60% RH	Approx. 10 min.
CURE TIME	12 - 24 hours
CUTTABLE (1" BEAD AT ROOM CONDITIONS)	<1 hour

Approvals / Standards

Handi-Foam Extreme 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 non-ozone depleting hydrocarbon propellant.

VOC Content: Contains less than 30% by weight VOC's.

NFPA 30B Classification: Level 3 Aerosol

Theoretical Yield*

Product	Bead Size			VOLUME
	1/4" (6.3 mm.)	3/8" (9.5 mm.)	1/2" (12.7 mm.)	
24 oz. (680 g.)	4174 ft.	1856 ft.	1044 ft.	1.50 ft. ³
P30120	(1272 m.)	(565 m.)	(319 m.)	(42.5 liters)

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

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Important Note: Use only in well ventilated areas. Wear impervious gloves, protective eyewear and suitable work clothes. 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 a 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. For storage of flammable aerosol

products, consult local building codes for specific requirements which may be applicable to storage of larger quantities. Always store the dispensing unit with a pressurized container attached to assure correct functioning of the gun.

Special Handling

The propellant is extremely flammable during dispensing and cure. Provide sufficient cross-ventilation to remove any buildup of vapors. Keep away from heat, sparks and sources of ignition. Vapors may cause flash fire if ignited. Contents are under pressure. Do not puncture or incinerate. Do not place in hot water or near radiators, stoves or other sources of heat.

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 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) for specific information. Prolonged inhalation exposure may cause respiratory irritation/sensitization and/or reduced pulmonary function in susceptible individuals. Onset may be delayed. Pre-existing respiratory conditions may be aggravated. Use only with adequate ventilation or certified respiratory protection. NIOSH approved positive pressure supplied air respirator or a negative pressure half mask with organic vapor cartridge and dust/mist prefilters is recommended if exposure guidelines may be exceeded. Contents may be very sticky and irritating to skin and eyes, therefore wear protective eyewear, impervious gloves, and suitable work 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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