

TECHNICAL DATA SHEET

One-Component Polyurethane Foam I-160, I-260

Handi-Foam® is a multiple purpose, UL classified 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 for the professional user, and dispensed through a flexible hose with a valve controlled dispensing nozzle. It may optionally be used with a reusable one-component dispensing unit, for added control.

Application Areas

Apply Handi-Foam onto any clean surface to fill, insulate and seal beneath base plates, mud sills, top plate penetrations, corner joints, T-joints, exterior cracks, around utility panels, pipes, duct penetrations, etc. It is specifically designed to be dispensed as a bead for filling cracks, crevices, and to fill smaller cavities on flat or irregular surfaces.

Properties

The pre-pressurized, portable foam system, applied in a bead form, cures slowly to a semi-rigid, closed cell foam upon reaction with moisture, such as ambient humidity. Expansion is minimal, but a desirable bead growth of 50—100% during the first hour of cure should be expected.

Handi-Foam dries tack-free within ten minutes or less depending on moisture and temperature conditions. Cuttable within one hour.

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

Optimal application temperature is between 65°F (18°C) and 100°F (38°C), and may be used between 40°F (5°C) and 115°F (46°C). Cured foam is resistant to heat and cold, -200°F to +200°F (-129°C to +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 requires no outside mechanical or electrical power source and is disposable. Handi-Foam systems are available in various sizes to meet specific job application requirements. When applied, the foam will seal,

bond, insulate and protect against air infiltration, dust, pests, etc.

PREPARATION FOR USE

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.

Shake kits *before* using.

APPLICATION / USE

After following instructions for set-up, kits are ready to use. The foam sealant system is available complete with hose, on/off control valve (ball valve), and nozzle. Attach the hose to the tank valve. After opening the tank valve with the valve upright, apply the foam sealant through the nozzle by opening the on/off valve slowly. Bead size and flow rate can be controlled by on/off valve. Tank valve must be in the upright position during foam application. Foam application can be interrupted when needed, as outlined in the instructions. Filling excessively large cavities may result in prolonged curing process and insufficient air or substrate moisture during cure may cause delayed expansion.

Handi-Foam is also adaptable to use with an optional one-component dispensing unit.

Remove fresh foam over spray with Handi-Foam® Polyurethane Cleaner (P10083) or solvents such as acetone. Cured foam can only be removed mechanically. The multipurpose Handi-Foam Polyurethane Cleaner product is also designed for cleaning the dispensing gun 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.



Fomo Products, Inc.
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Technical Data

CORE DENSITY	1.4 lbs / ft ³ (22 kg/m ³)
R-FACTOR	4-5 per inch (.03 w/m.k) typically
SHEAR STRENGTH ASTM C-273	12 psi (83 k Pa)
COMPRESSIVE STRENGTH ASTM D-1621 Parallel at 10%	5 - 6 psi (34-41 k Pa)
CLOSED CELL CONTENT ASTM D-2856	> 50%
TACK-FREE TIME 70°F (21°C), 40% RH	Approx. 10 min.
CURE TIME	12 - 24 hours
CUTTABLE (1" BEAD AT ROOM CONDITIONS)	<1 hour

Approvals / Standards

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

UL Classified - File # R13919 Caulking and Sealants
ASTM E-84 (16.6%)
Flame Spread 20
Smoke Developed 70

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

VOC Content: Contains no VOC's.

Theoretical Yield*

Product	Bead Size			VOLUME
	1/4" (6.3mm)	3/8" (9.5mm)	1/2" (12.7mm)	
I-160				
P10340	21000 ft	9300 ft	5300 ft	7.14 ft ³
& P10341	(6400 m)	(2835 m)	(1585 m)	(200 liters)
I-260				
P10540	33400 ft	14800 ft	8380 ft	11.4 ft ³
& P10541	(10180m)	(4510m)	(2554m)	(320 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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