

TECHNICAL DATA SHEET



Polyurethane Cylinder Foam Sealant I-160, I-260

Handi-Foam® Cylinder 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, non-ozone depleting 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. For added control, it may be used with a reusable one-component dispensing unit.

Application Areas

Apply Handi-Foam Cylinder Foam onto any clean surface to fill 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 one-component foam system, applied in a bead form, expands and cures slowly over several hours to a semi-rigid, closed cell foam upon reaction with moisture, such as ambient humidity.

Handi-Foam Cylinder Foam dries tack-free within 10 minutes or less depending on moisture and temperature conditions, is cuttable within 1 hour and fully cures in 12-24 hours.

Handi-Foam Cylinder 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.

Optimum chemical temperature is between 65°F and 80°F (18°C to 27°C), but may be applied in cold or hot ambient conditions, as long as the working chemical temperature range is maintained. Cured foam is dimensionally stable, and known to be resistant to temperatures ranging between -200°F to +240°F (-129°C to +115°C).

Handi-Foam is water resistant 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. When cured, polyurethane foam is permanent, chemically inert, non-reactive and stable for an indefinite period of time. Cured foam should be protected against UV rays (i.e. sunlight) by painting or staining to prevent long term discoloration or degradation.

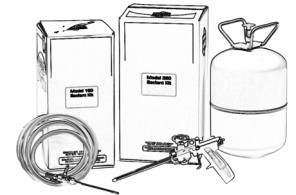
Preparation for Use

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

use.

Shake kits well *before* using.

For best results in cavities larger than 3 inches in diameter, dampen substrate to supplement atmospheric humidity in affecting consistent cure throughout applied foam.



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. Handi-Foam Cylinder Foam is especially useful for irregular voids and non linear cracks and crevices, as expansion is minimal, but a desirable bead growth of 50-100% during the first hour of cure should be expected. Filling excessively large cavities can result in a prolonged curing process and insufficient air or substrate moisture during cure may cause delayed expansion.

Handi-Foam Cylinder Foam can also be used with a reusable one-component dispensing unit for added control.

Remove fresh foam over spray with Handi-Cleaner® (P10083) or solvents such as acetone. Cured foam can only be removed mechanically. The multi-purpose Handi-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, protective eyewear, and suitable 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.**

Special Handling

Contents are under pressure. Do not puncture or incinerate. Do not place in hot water or near radiators, stoves or other sources of heat.

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 Cylinder Foam is reusable by following product instructions.

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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

CORE DENSITY— NOMINAL	1.5 lbs/ft ³ (24.0 kg/m ³)
R-FACTOR	4-5 per inch (.03 W/m)K typically
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)
CLOSED CELL CONTENT ASTM D-2856	>60%
TACK-FREE TIME	Approx. 10 minutes
COMPRESSIVE STRENGTH ASTM D-1621	5.2 psi (36 kPa)
TENSILE STRENGTH ASTM D-1623	12 psi (86 kPa)
Elongation %	5.8%
FULLY CURES 1" bead at room conditions	12-24 hours
CUTTABLE	1 hour

Approvals / Standards

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

ASTM E-84 (tested at 12.5% surface coverage)
Flame Spread less than 25
Smoke Developed less than 50

ODP (Ozone Depletion Potential): Contains non-ozone depleting, non-flammable HFC propellant.

VOC Content: Contains no VOC's.

Theoretical Yield*

Product	Bead Size			VOLUME
	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)	
I-160				
P40340	19572 ft.	8688ft.	4887 ft.	6.66 ft. ³
& P40341	(5965 m)	(2648 m)	(1489 m)	(189 liters)
I-260				
P40540	31347 ft.	13914ft.	7827 ft.	10.66 ft. ³
& P40541	(9554 m)	(4241 m)	(2386 m)	(302 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. 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) 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 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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e: info@fomo.com w: www.fomo.com