

TECHNICAL DATA SHEET



Handi-Seal® eco foam



Handi-Seal® eco foam is a one-component polyurethane foam sealant specifically designed to seal rough openings around doors and windows. Handi-Seal® eco foam has been formulated to contain over 10% soy renewable resources. Handi-Seal® eco foam utilizes a HC propellant. Refer to the product storage and special handling section of this document for information regarding the use of flammable aerosol propellants.

Handi-Seal® eco foam is available as a 20oz straw foam and a 20oz gun foam. The gun foam version is designed to be dispensed through any Handi-Tool® dispensing unit. The straw foam version is designed to be dispensed through a straw adapter (included with each can).

Application Areas

Apply Handi-Seal® eco foam onto any clean surface to fill and seal around gaps, 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.

Properties

The pre-pressurized, portable one-component foam system, applied in a bead form, expands and cures slowly to a semi-rigid, closed cell foam upon reaction with moisture, such as ambient humidity.

Handi-Seal® eco foam dries tack-free in approximately 5 minutes or less depending on moisture and temperature conditions. The foam fully cures within 24 hours. Expansion of 2–3 times the dispensed bead within the first hour should be expected.

Handi-Seal® eco 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 - 27°), but may be applied in cold or hot ambient conditions, as long as the optimal 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-Seal® eco 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.

Handi-Seal® eco foam meets the AAMA (American Architectural Manufacturers Association) 812 voluntary test specifications for low pressure window and door sealant foams.

Application/Use

After following instructions for set-up, the cans are ready to use. Straw foam Option: Attach the straw, shake well, invert the can,

and begin dispensing. By activating the adapter lever carefully, the extrusion rate can be regulated. Gun foam Option: The dispensing units can be metered by pulling the dispensing unit trigger for the desired rate, or with the metering screw located in the back. Foam application can be interrupted when needed as outlined in the instructions and the dispensing unit will be ready for immediate re-use, as long as it remains attached to a pressurized container. An empty gun foam container must be replaced with a new container.

Handi-Seal® eco foam is especially useful for irregular voids and on non-linear cracks and crevices. 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 over spray with Handi-Cleaner® (P10083) or solvents such as acetone. Cured foam can only be removed mechanically.

Important Note: Use only in well ventilated areas. Wear protective glasses or goggles, nitrile gloves, and clothing that protects against dermal exposure when using. Read all instructions and safety information prior to use of any product. Consult the product's MSDS (available at www.fomo.com). The product contains no formaldehyde. Cured foam is non-toxic.

KEEP OUT OF REACH OF CHILDREN.

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. Turn off all pilot lights. Vapors may cause flash fire if ignited. Contents are under pressure. Do not puncture, incinerate or store above 120°F (49°C). Do not place in hot water or near radiators, stoves, motor vehicles or other sources of heat. Cured urethane foam produced from these ingredients will support combustion and may present a fire hazard if exposed to a fire or excessive heat 240°F.

Product Storage

Store in 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-Seal® eco foam is reusable by following product instructions.

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Technical Data

CORE DENSITY-STRAWFOAM ASTM D1622	1.5 lbs/ft ³ (24 kg/m ³)
CORE DENSITY-GUNFOAM ASTM D1622	.92 lbs/ft ³ (14.7 kg/m ³)
K-FACTOR ASTM C518-INITIAL	0.267 BTU·inch / ft ² ·h·°F (0.038 W/m·K)
R-VALUE	3.75/inch
TACK-FREE TIME	Approx. 5 minutes
FULLY CURES 1" bead at room conditions	12-24 hours
Cuttable (1" Bead)	<1 hour
FIRE RATING ASTM E84 Caulking & Sealant Tested at 3/4" bead thickness	Flame Spread Index = 5 Smoke Developed = 5

Approvals / Standards

ASTM E84 Caulking & Sealants
Tested at 12.5% Surface Coverage Area
Flame Spread 5
Smoke Developed 5

LEED: This product may contribute credits for LEED (Leadership In Energy & Environmental Design) categories based on the Following:

- Contains approximately 11% by weight of rapidly renewable materials.
- According to SCAQMD Rule #1168 polyurethane foams are classified as architectural foam sealants– VOC content is limited to 250g/L– Handi-Seal[®] eco foam has less 14% VOC content by weight or 144 g/L

Theoretical Yield*

Product	Bead Size			VOLUME
	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)	
20oz (567g) Straw Foam P30096	2446ft (746 m)	1087ft (331 m)	611ft (186 m)	.83 ft ³ (23.5 L)
20oz (567g) Gun Foam P30097	3988ft (1216 m)	1772ft (540 m)	997ft (304m)	1.35 ft ³ (38.2 L)

*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) at www.fomo.com for specific information. Use only in a well ventilated area or 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 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. 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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