

TECHNICAL DATA SHEET

FOR PROFESSIONAL USE ONLY



Two-Component Quick Cure Spray Foam



Handi-Foam® Quick Cure Spray Foam is a low pressure foam system that utilizes a non-flammable blowing agent. Handi-Foam Quick Cure Spray Foam has been specifically formulated for flame retardancy and conforms to the requirements of ASTM E84 as a "Class 2(B)" system (flame spread of 75 or less, smoke development of 450 or less). The foam helps to lower heating and cooling costs by drastically reducing energy consumption.

Application Areas

Spray foam onto any clean, dry surface in any direction to insulate, fill and seal various size voids, deaden sound or reduce vibration. It is specifically designed to spray onto flat or irregular surfaces and to fill large cavities where flame retardant requirements specify E84 Class 2 (B) Spray Foam.

Properties

Two-component froth foam systems will expand immediately upon chemical reaction of A component (isocyanate) and B component (a polyol blend) to a final volume that is 3 to 5 times the dispensed volume, in typical applications, depending on various factors such as cavity size and ambient conditions. The foam will cure to a semi-rigid closed cell foam.

Handi-Foam Quick Cure Spray Foam fully expands and dries tack-free within 30-60 seconds, is cuttable in 2-5 minutes and fully cures within 1 hour.

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

Optimum application temperature is 75°F (24°C) to 85°F (29°C) but may be sprayed onto colder or warmer substrates, with slight effects on the foam characteristics. Cured foam is resistant to heat and cold, -200°F to +240°F (-129°C to +116°C), and to aging, but not UV rays (i.e. sunlight) unless painted, covered or coated. Cured polyurethane foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylene (i.e. PEX) or other plastic. It is approved for use around wires, plumbing penetrations, etc.

Handi-Foam Quick Cure Spray Foam systems are available in three non-refillable sizes to meet specific job applications requirements. When sprayed, the foam will create a seamless, continuous seal to insulate and protect against dust, air infiltration and pests.

Physical Properties

See technical data table on the second page.

Preparation For Use

Substrate must be clean, dry, firm, free of loose particles and free of dust, grease and mold release agents. Protect surfaces not to be foamed.

Shake kits well *before* using (applicable to non-refillable systems).

Read the enclosed operating instructions available in every kit or they can be found on our website www.fomo.com. Carefully read all cautions and warnings before use. Always refer to the local building codes before application of product.

Use

Warm tanks to 75°F-85°F (24°C-29°C). After following instructions for set-up, attach appropriate hose to tanks A and B if needed (11-605 size). Shake kits well before using. Open tank valves as directed. Materials are dispensed through the hoses. Attach the static cone or fan nozzle to the end of the dispensing unit. The A-component and the B-component meet and mix in the disposable nozzle. With a nozzle attached to the two-component froth dispensing unit, dispense foam by squeezing the trigger of the unit. To interrupt or stop foaming process, release the trigger. Once foaming process has stopped, the dispensing unit must be reactivated within 30 seconds or a new nozzle **must** be installed. Fresh foam may be applied in several stages to reduce overfilling of void or damage to non-rigid, confined cavities. Cured foam can only be removed mechanically.

Personal Protective Equipment (PPE):

Use only in a well-ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). Wear protective glasses or goggles with side shields, nitrile gloves, and clothing that protects against dermal exposure. Read all instructions and safety information (MSDS) prior to use of any product. The MSDS can be found at www.fomo.com.

For additional product stewardship information visit www.fomo.com/healthandsafety/default.aspx

Important Note:

The urethane foam produced from these ingredients will support combustion and may present a fire hazard if exposed to a fire or excessive heat about 240°F (116°C).

KEEP OUT OF REACH OF CHILDREN.

Product Storage

Store in a dry area. Do not expose the kit or tanks 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 Quick Cure Spray Foam is reusable by following product instructions.

Cold Weather Note: For best results, foam chemical temperature must be between 75°F-85°F (24°C-29°C). Warm kits for a minimum of 1 day at room temperature.

Disposal Procedures

Refer to product SDS (Section 13) for instructions. Always dispose of empty cylinders according to applicable federal, state, provincial and local regulations. Check with your local waste disposal service for guidance.

Warranted shelf life is twelve (12) months from date of manufacture.

Fomo Products, Inc.
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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

DENSITY

ASTM D1622 Free Rise 1.75 lb/ft³ (28 kg/m³)

K-FACTOR

ASTM C518
Aged 90 days at 140°F (60°C) 0.166 BTU-inch / ft²·h·°F (0.023 W/m·K)

R-VALUE (Metric RSI in parentheses)

Aged 90 days at 140°F (60°C) 6.0/inch (RSI=1.05/inch)

AIR BARRIER PROPERTIES

ASTM E283
Tested at 1" thickness
@1.57 psf (75 Pa) 0.003 cfm/ft² (0.02 L/s/m²)

PERM RATING

ASTM E96-Method A 1.99 (119 ng/(m²·Pa·s))- Class III Vapor Retarder
1" (2.54 cm) 1.18 (71 ng/(m²·Pa·s))- Class III Vapor Retarder
2.5" (7.62 cm)

TENSILE STRENGTH

ASTM D1623 29 lbf/in² (200 kPa)

AIR PERMEANCE

ASTM E2178 .02 l/(m²·s)

COMPRESSIVE STRENGTH

ASTM D1621
Parallel @ 10% 27 lbf/in² (186 kPa)
Perpendicular @ 10% 18 lbf/in² (124 kPa)

DIMENSIONAL STABILITY

ASTM D2126
HEAT AGE: +158°F (70°C) -0.6%
HUMID AGE: +158°F (70°C), 100% RH +2.9%
COLD AGE: -4°F (-20°C) -0.3%

CLOSED CELL CONTENT

ASTM D2856 95%

TACK-FREE / EXPANSION TIME

30 - 60 seconds

CUTTABLE

2-5 minutes

FULLY CURED

1 hour

FUNGI RESISTANCE

ASTM G21 No Growth

FIRE RATING*

ASTM E84
Tested at 2" thickness (full coverage) Flame Spread Index = 75
Smoke Developed =450

UL 94

ASTM C736 HF-1

DIN 4102.1

B2

Approvals / Standards

Handi-Foam Quick Cure Spray Foam conforms to the requirements of ASTM E84 as a class 2 (B) material. Tested at two inch thickness.

GREENGUARD Certification

Contains a non-flammable HFC propellant.

Made in Akron, Ohio

Theoretical Yield*

Non-Refillable	Weight (including packaging)	Board Feet	Cubic Feet
II-105 P10700	26.4 lbs	105 (9.8 m ²)	8.75 (.25 m ³)
II-205 P10720	41 lbs	205 (19 m ²)	17 (.48 m ³)
II-605 P10749	115.7 lbs	605 (56.2 m ²)	50 (1.42 m ³)

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

Processing Parameters

Product Storage*	<120°F (49°C)	Store in a dry area
Application Temperature	40°F (5°C)- 120°F (49°C)	For best results
Chemical Temperature	75°F (24°C)- 85°F (29°C)	

* For best results, warm kit for a minimum of 1 day at 75°F (24°C)- 85°F (29°C)

**The numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

Always read all operating, application and safety instructions before using any products. 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, Inc. 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. Prolonged inhalation exposure may cause respiratory irritation/sensitization and/or reduce pulmonary function in susceptible individuals. Onset may be delayed. Pre-existing respiratory conditions may be aggravated. **Use only in a well ventilated area and with certified respiratory protection. NIOSH approved positive pressure supplied air respirator is recommended if exposure guidelines may be exceeded (see MSDS).** 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. Do not induce vomiting. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. 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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Fomo Products, Inc. p: 1 330.753.4585, 1 800.321.5585 f: 1 330.753.5199

e: info@fomo.com w: www.fomo.com