

# HANDIFOAM® MULTIPURPOSE ADHESIVE

## LOW PRESSURE ONE-COMPONENT POLYURETHANE FOAM ADHESIVE

### TECHNICAL DATA SHEET



#### FEATURES & BENEFITS

HandiFoam® Multipurpose Adhesive is a low-pressure, one-component spray polyurethane foam adhesive system, used to adhere expanded and/or extruded polystyrene, foundation insulation systems, foam shapes, and moldings. This product is tested in accordance with ASTM E84: Caulking & Sealant for coverage at 3/4-inch cured foam thickness.

#### PREPARATION

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. Read SDS, Operating Instructions, and Product Stewardship Guidelines. Always check the local building code before use. For additional information go to [www.HandiFoam.com](http://www.HandiFoam.com)

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Recommend using in a well-ventilated area. Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Read all instructions and SDS (Section 8) prior to use of any product.



#### USE

Attach the container to the dispensing unit (Handi-Tool®), shake well, and begin dispensing. 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.

#### PRODUCT STORAGE & DISPOSAL

Store upright in a dry area. Do not expose the product to open flame or temperatures above 122°F (50°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life.

#### COMPATIBILITY

Cured low pressure polyurethane foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, extruded polystyrene foams, Romex®, rubber, PVC, polyethylene (i.e. PEX) or other plastics. The product is not resistant to UV rays; if left exposed the product should be coated or painted. **FOR PROFESSIONAL USE ONLY.**

TECHNICAL DATA	STANDARD	RESULTS	
Density	ASTM D1622		
Free Rise		0.81 lbs/ft <sup>3</sup> (13 kg/m <sup>3</sup> )	
Tack-Free		Approx. 5 minutes	
Cuttable		1 Hour	
K-Factor	ASTM C518		
Initial		0.3 BTU·inch/ft <sup>2</sup> ·h·°F at 1" thickness	
R-Value	ASTM C518		
Initial		3.3 at 1" thickness	
Closed-Cell Content	ASTM D2856	5%	
Compressive Strength	ASTM D1621	Parallel: 4.3 lbf/in <sup>2</sup> (29.6 kPa)	
Dimensional Stability	ASTM D2126 (% vol. change)		
122°F (50°C) / 28 days		±5%	
VOC Content	EPA Method 24 (calculated)	101 g/L or 10%	
Fire Rating			
Caulking & Sealant- Tested at 3/4" Thickness	ASTM E84	Flame Spread: 0	Smoke Developed: 10
Shelf Life		12 months	



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#### TEMPERATURE GUIDELINES

Product Chemical Temperature	65-80°F (18-27°C)
Chemical Storage Temperature	Optimum 65-80°F (18-27°C) but always <120°F (49°C)
Outside Application Temperature	40-100°F (18-38°C)
Surface (Substrate) Temperature	40-100°F (18-38°C)
Cured Foam	-200°F to +240°F (-129°C to +116°C)

#### MAXIMUM THEORETICAL YIELD<sup>1</sup> (0.81 lbs/ft<sup>3</sup> Free Rise Density)

DISPOSABLE ITEM NUMBER	VOLUME	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (12.7 mm)
P30240 24 oz. (680g) Gun Foam	1.85 ft <sup>3</sup> (52 L)	Up to 5436 ft (1657 m)	Up to 2416 ft (736 m)	Up to 1359 ft (414 m)

<sup>1</sup>Yield is based on free-rise density. We state our core density/free-rise density when describing the foam. Applying foam into a cavity may result in higher in-place densities due to packing effects. These higher densities may result in lower yields.

<sup>2</sup>Average Gross Weight

**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 ICP Construction, Inc. of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call ICP Construction, 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. The Customer is responsible for deciding whether products and associated TDS information are appropriate for customer's use.

ICP low pressure one-component polyurethane foam sealants and adhesives (OCF), low pressure spray polyurethane foams (SPF), and low pressure pour-in-place polyurethane foams (PIP) are composed of a diisocyanate, hydrofluorocarbon or hydrocarbon blowing agent, and polyol. Read the SDS and all instructions carefully before use ([www.HandiFoam.com](http://www.HandiFoam.com)). Additional information on ventilation and safety equipment can be found in the Product Stewardship Guide ([www.HandiFoam.com](http://www.HandiFoam.com)). 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). Refer to each product's TDS for specifications, testing results, and other attributes. The customer is ultimately responsible for deciding whether products and associated TDS information are appropriate for customer's use. Refer to the products' SDS, ICP Construction's Product Stewardship Guidelines, and operating instructions for guidance on the safe and proper application of the product ([www.HandiFoam.com](http://www.HandiFoam.com)). For professional use only. Building practices unrelated to materials can lead to potential mold issues. Material suppliers cannot provide assurance that mold will not develop in any specific system.

**WARNINGS:** Follow safety precautions and wear protective equipment as recommended in the SDS and instructions. 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. We recommend that the product is used 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. Contents may be very sticky and irritating to skin and eyes, therefore, safety glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure when operating may be recommended. 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 specific usage. **KEEP OUT OF REACH OF CHILDREN.**

**LIMITED WARRANTY and LIMITATION OF DAMAGES:** ICP Construction, Inc. warrants only that the product shall meet ICP Construction, Inc. specifications for the product when shipped by ICP Construction, Inc. NO OTHER EXPRESSED OR IMPLIED WARRANTIES APPLY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OUTSIDE THE U.S. AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. Buyer and users assume all risks of use, handling and storage of the product. Failure to strictly adhere to any recommended procedures shall release ICP Construction, Inc. from all liability. The user of the product is responsible for determining suitability of the product for particular use. The exclusive remedy as to any breach of warranty, negligence or other claim is limited to the replacement of the product. Liability for any indirect, incidental or consequential damage or loss is specifically excluded.

