



P12055-LO

FOAM SYSTEM (HFO) DATA SHEET

DESCRIPTION: APOC® FOAM SYSTEM (HFO) is a two-component system designed to fill and insulate large voids and surfaces. APOC® Foam System's excellent adhesion properties create a continuous air barrier which completes the building envelope, resulting in improved indoor air quality and lower heating and cooling costs. **This product is formulated utilizing an HFO blowing agent which is part of our ongoing commitment to developing foam chemistries with lower global warming impact and enhanced product performance.**

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 and Operating Instructions. For additional information go to www.APOC.com.

APPLICATION: Condition chemical to 75-85°F (24-29°C). Follow instructions for set-up found in the operating instructions.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Recommend dispensing product in a well-ventilated area with certified respiratory protection; however, well ventilated exterior applications may not need respiratory protection. It is the responsibility of the employer to complete a PPE evaluation and/or exposure assessment to determine if respiratory protection is required. Read all instructions and SDS (Section 8) prior to use of any product.

NOTE: FOR PROFESSIONAL USE ONLY. Always check the local building code before use. Cured low pressure polyurethane foam is non-toxic and inert.

TEMPERATURE: Please see temperature guidelines in the operating instructions.

PRODUCT STORAGE: Store in a dry area. Do not expose the kits or cylinders to open flame or temperatures above 90°F (32°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life.

DISPOSAL: Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders in accordance with applicable local/regional/national/international regulations.

SHELF LIFE: 12 months.

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.

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 of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call ICP 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. For polyurethane foam sealants/adhesives: wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Recommend using in a well-ventilated area. Avoid breathing vapors. Read the SDS and instructions carefully before use (www.icpgroup.com). For spray polyurethane foams and pour-in-place polyurethane foams: wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Use only in a well-ventilated area and with certified respiratory protection or a powered air purifying respirator (PAPR). Additional information on ventilation can be found in the Product Stewardship Guide (www.icpgroup.com). Read the SDS (www.icpgroup.com) and instructions carefully before use. 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 and operating instructions for guidance on the safe and proper application of the product (www.icpgroup.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. 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 wear safety glasses with side shields 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 AND LIMITATION OF DAMAGES: ICP warrants only that the product shall meet ICP specifications for the product when shipped by ICP. 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 from all liability. The user of the product is responsible to determine suitability of the product for the 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.

TECHNICAL DATA	STANDARD	RESULTS
Density <i>Free Rise</i>	ASTM D1622	1.75 lbs/ft ³ (28 kg/m ³)
Density <i>In place</i>	ASTM D1622	2.00 lbs/ft ³ (32 kg/m ³)
R-Value ASTM C518	Initial	7.30 at 1" thickness
	Initial	12.88 at 2" thickness
	Aged 90 days (<i>in-house</i>)	6.10 at 1" thickness
	Aged 180 days	Testing in progress
K-Factor ASTM C518	Initial	0.140 BTU•inch/ft ² •h•°F at 1" thickness
	Initial	0.078 BTU•inch/ft ² •h•°F at 2" thickness
	Aged 90 days	0.164 BTU•inch/ft ² •h•°F at 1" thickness
	Aged 180 days	Testing in progress
Air Barrier Properties <i>Estimated</i>	@1.57 psf (75 Pa)	<0.0025 cfm/ft ² (<0.0125 L/s/m ²)
	@6.24 psf (300 Pa)	<0.01 cfm/ft ² (<0.05 L/s/m ²)
Compressive Strength	ASTM D1621	15 lbf/in ² (103 kPa) Parallel
Tensile Strength	ASTM D1623	27 lbf/in ² (186 kPa) Parallel
Dimensional Stability	ASTM D2126 (% volumetric change)	+/- 7%
Tack-Free/Expansion Time		15-30 seconds
Closed-Cell Content	ASTM D2856	> 90%
Cutable		10 minutes (estimate)
Fungi Resistance	ASTM G21	No growth
Perm Rating - Method A	ASTM E96 1" thick (2.54 cm)	0.91 perms - Class II Vapor Retarder
VOC Content	EPA Method 24	<25 g/L <i>when mixed as intended</i>
Fire Rating Class A <i>Tested at 2"</i> <i>thickness</i>	ASTM E84	
		Flame Spread Index 10
		Smoke Developed 350

TEMPERATURE GUIDELINES

Chemical Storage Temperature	Optimum 75-85°F (24-29°C) but not <60°F (16°C) or >90°F (32°C)
Outside Application Temperature	40-100°F (4-38°C)
Process Core Chemical Temperature	75-85°F (24-29°C)
Surface Temperature (Substrate)	40-100°F (4-38°C)
Cured Foam	-200°F to +240°F (-129°C to +116°C)

YIELD (1.75 lbs/ft³ Free Rise Density)

ITEM #	WEIGHT	BOARD FT.	CUBIC FT.	LINEAR FT.
P12055-LO	40.4 lbs.	201 ft ² (18.6 m ²)	16.7 ft ³ (0.47 m ³)	3,065 ft @ 1" bead

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