


LOW PRESSURE POLYURETHANE FOAM INFORMATION

Description	Low pressure, two-component spray polyurethane foam adhesive
SPF	Spray Polyurethane Foam
Applications	Designed to adhere to a variety of substrates and insulation board stock in both new and recover applications.
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. Read SDS, Operating Instructions, and Product Stewardship Guidelines. For additional information go to www.polysetadhesives.com
Use	Warm/Cool chemical to 70-85°F (21-29°C). Follow instructions for set-up found in the operating instructions.
PPE	 <p>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, ICP Product Stewardship Guidelines, and SDS (Section 8) prior to use of any product.</p>
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 located on page 2. Lower substrate application temperatures will increase gel and tack free times. The applicator can also expect a slower rise time.
Product Storage	Store in a dry area. Optimum chemical storage temperature is 50-90°F (10-32°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life. Do not allow material to freeze.
Disposal	Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders in according to applicable federal, state, provincial and local regulations.
Shelf-life	18 months
Compatibility	Cured low pressure polyurethane foam is chemically inert and non-reactive in approved applications. See compatibility chart located on page 2.
Limitations	Do not use when ambient substrate temperatures are below 30°F (-1°C). Do not use during inclement weather, on wet surfaces or on any roof deck showing signs of deterioration or loss of structural integrity. Do not use after the expiration date. Do not use on insulating board stock larger than 4 x 4 ft.

TECHNICAL DATA	STANDARD	RESULTS
Tensile Strength	ASTM D412	29 psi
Density	ASTM D1622	2.8 lbs/ft ³
Compressive Strength	ASTM D1621	11 psi
Water Absorption	ASTM D471	4.2%
Fire Rating at 1" Thickness	ASTM E84	Flame Spread Index 15 Smoke Developed 200

APPROVALS/STANDARDS/CLASSIFICATIONS

UL - Underwriters Laboratories
FM - Factory Mutual
Miami Dade NOA
FBC - Florida Product Approval



PROPERTIES*

Open Time	1 – 10 minutes
Mixing Nozzle Working Time	30 seconds
Set-up Time	10 – 30 minutes
Cure Time	24 hours
VOC Content (EPA Method 24)	98 g/L

*Times may be affected by temperature and weather conditions

TEMPERATURE GUIDELINES

Chemical Storage Temperature	50-90°F (10-32°C)
Outside Application Temperature/Ambient	30-100°F (-1-38°C)
Process Core Chemical Temperature	70-85°F (21-29°C)
Surface Temperature (Substrate/Deck)	30-100°F (-1-38°C)
Cured Foam	-200°F to +240°F (-129°C to +116°C)

YIELD* AND WEIGHT

Product Number	Maximum Yield Spatter Pattern	Maximum Yield 2.5" bead, 12" OC	Net Weight
P12050	30 Squares	35 Squares	44.5 lbs. (20.2 kg) A component 44.1 lbs. (20.0 kg) B component
P12051	9 Squares	11 Squares	27.7 lbs. (12.7 kg) / Kit

*Coverage rates may vary based on ambient temperature and application

COMPATIBLE ROOF DECKS AND SUBSTRATES

Structural Concrete	Polyisocyanurate (flat or tapered)
Asphalt Primed Concrete	Extruded or Expanded Polystyrene
Pre-cast Concrete	High density wood fiber
Various BUR (smooth or gravel)	Gypsum boards
Steel-22 gauge or lower with approved cross section	Cement roof boards
Lightweight Structural Concrete	
Cementitious Wood Fiber Planks	
Insulating Concrete	
Vapor Retarders (hot, cold, torch-applied)	
Gypsum	

COMPATIBLE ROOF INSULATIONS AND COVER BOARDS

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. Yields shown are optimum and will vary slightly depending on ambient conditions and application. 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.

WARNING:

ICP low pressure one-component polyurethane foam sealants and adhesives (OCF), low pressure spray polyurethane foams and foam adhesives (SPF), and low pressure pour-in-place polyurethane foams (PIP) are composed of diisocyanate, hydrofluorocarbon, hydrocarbon, hydrofluoroolefin or hydrochlorofluoroolefin blowing agent, and a polyol blend. 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). Read all instructions, ICP Product Stewardship Guidelines and SDS (Section 8) prior to use of any product. ICP polyurethane products are for professional use only.

Before using any OCF, SPF or PIP product, read the SDS and instructions carefully before use (www.polysetadhesives.com). **OCF Products:** 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. **SPF/PIP Products:** wear protective glasses with side shields or goggles unless using a full-face respirator, nitrile gloves, and clothing that protects against dermal exposure. Recommend dispensing product in a well-ventilated area and with certified respiratory protection or a powered air purifying respirator (PAPR); 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. Personal Protective Equipment can be purchased through ICP Building Solutions Group by ordering the Polyset® Contractor Safety Kit (F65251). The Contractor Safety Kit includes nitrile gloves, contractor safety glasses, and a size Medium NIOSH-approved negative pressure half mask respirator.

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. 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. Product uses a non-flammable compressed gas. Keep away from heat. Smoking and open flames, including hot work, should be prohibited in the vicinity of a foaming operation. Avoid contact with skin and eyes. May cause sensitization by inhalation and/or direct skin contact. Persons previously sensitized to Isocyanates may develop a cross-sensitization reaction to other isocyanates. Avoid prolonged or repeated breathing of vapor. 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 Building Solutions Group of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call ICP Building Solutions Group 330.753.4585.



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WITH GLOBALLY SOURCED MATERIALS