


## LOW PRESSURE POLYURETHANE FOAM INFORMATION

<b>Description</b>	Low pressure, two-component spray polyurethane foam adhesive
<b>SPF</b>	Spray Polyurethane Foam
<b>Applications</b>	Designed to adhere to a variety of substrates and insulation board stock in both new and recover applications using bead or spatter techniques.
<b>Preparation for use</b>	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 <a href="http://www.icpadhesives.com">www.icpadhesives.com</a> .
<b>Use</b>	Condition chemical to 70-85°F (21-29°C). Follow instructions for set-up found in the operating instructions.
<b>PPE</b>	 <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>
<b>Note</b>	FOR PROFESSIONAL USE ONLY. REQUIRES REFILL TRAINING. Contact Customer Care at (330)-753-4585 for more information. Always check the local building code before use. Cured low pressure polyurethane foam is non-toxic and inert.
<b>Temperature</b>	Please see chart located on page 2. Lower substrate application temperatures will increase gel and tack free times. The applicator can also expect a slower rise time.
<b>Product Storage</b>	Store in a dry area. Optimum chemical storage temperature is 60-90°F (16-32°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life. Do not allow material to freeze.
<b>Return Instructions</b>	Refer to SDS (Section 13) for instructions. The cylinders are shipped back to ICP to be cleaned, refilled, and redistributed. Return instructions are included in the A-side collar of the refill system.
<b>Shelf-life</b>	6 months
<b>Compatibility</b>	Cured low pressure polyurethane foam is chemically inert and non-reactive in approved applications. See compatibility chart located on page 2.
<b>Limitations</b>	Do not use when ambient substrate temperatures are below 40°F (4°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

<b>Tensile Strength</b>	ASTM D412	23 psi (158.6 kPa)
<b>Elongation</b>	ASTM D412	7.95%
<b>Peel Strength</b>	ASTM D903	23.5 lbf/in
<b>Water Absorption</b>	ASTM D471	2.5%
<b>Flexibility</b>	ASTM D816	Pass
<b>Fire Rating</b> – Tested at 2.5" thickness	ASTM E84	Flame Spread Index 15 Smoke Developed 135

**TIME BEFORE WALKING IN (Bead Applied)**

Ambient / Deck Temperature	Time
40-60°F (4-16°C)	6 – 10 minutes
60-80°F (16-38°C)	3 – 6 minutes
80-100°F (27-38°C)	1 – 3 minutes

**APPROVALS/STANDARDS/CLASSIFICATIONS**

**UL - Underwriters Laboratories-** R39032 Testing in accordance with UL1897  
**FM - Factory Mutual** - Testing in accordance with FM Approval Class 4470.  
**Miami Dade NOA** - 16-0315.02  
**FBC - Florida Product Approval** - FL1365

**PROPERTIES\***

<b>Open Time</b>	1 – 10 minutes
<b>Mixing Nozzle Working Time</b>	30 seconds
<b>Set-up Time (Tack Free)</b>	10 – 20 minutes
<b>Cure Time</b>	24 hours
<b>VOC Compliant (EPA Method 24)</b>	107 g/l

\*Times may be affected by temperature and weather conditions

**TEMPERATURE GUIDELINES**

<b>Chemical Storage Temperature</b>	60-90°F (16-32°C)
<b>Outside Application Temperature/Ambient</b>	40-100°F (4-38°C)
<b>Process Core Chemical Temperature</b>	70-85°F (21-29°C)
<b>Surface Temperature (Substrate/Deck)</b>	40-100°F (4-38°C)
<b>Cured Foam</b>	-200°F to +240°F (-129°C to +116°C)

**YIELD\* AND WEIGHT**

Product Number	Net Weight	Squares (Theoretical)
<b>62000880307</b> – 17 gallon A-side cylinder	149 lbs (67.6 kg)	76
<b>62000780305</b> – 17 gallon B-side cylinder	131 lbs (59.4 kg)	

\*Coverage rates may vary based on ambient temperature and application

**COMATIBLE 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
Base Sheets	Cement roof boards
Steel-22 gauge or lower with approved cross section	
Lightweight Structural Concrete	
Cementitious Wood Fiber Planks	
Insulating Concrete	
Vapor Retarders (hot, cold, torch-applied)	
Gypsum	

**COMPATIBLE ROOF INSULATIONS AND COVER BOARDS**

**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 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 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. 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 or hydrofluoroolefin 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.icpadhesives.com](http://www.icpadhesives.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.

**LIMITED WARRANTY and LIMITATION OF DAMAGES:** ICP Building Solutions Group warrants only that the product shall meet ICP Building Solutions Group's specifications for the product when shipped by ICP Building Solutions Group. 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 Building Solutions Group 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.

**Cylinder Warranty Statement**

ICP Building Solutions Group warrants that the cylinder is fit to dispense ICP Building Solutions Group foam products that are loaded into the cylinder by ICP Building Solutions Group. The sole remedy for any breach of warranty is replacement of the cylinder. 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. The terms, conditions and warranties applicable to ICP Building Solutions Group's products dispensed from the cylinder are covered in other ICP Building Solutions Group documentation relating to that purchase. Liability for any indirect, incidental or consequential damage or loss specifically excluded. **Buyer must not make any changes to the cylinder or the cylinder components, including plumbing.** Any such change may produce dangerous results and cause damage or injury, including a loss of product stored in the cylinder. ICP Building Solutions Group is not responsible for damages or injuries resulting from any such changes. Those damages or injuries are Buyer's responsibility, and ICP Building Solutions Group may charge Buyer for the costs of any resulting cylinder damage or repairs. ICP Building Solutions Group also reserves the right to restrict future sales if the Buyer does not address safety concerns such as modified or missing plumbing, pressure relief valve activated or excessive cylinder pressure.

**Magnum Heated Hose Warranty Statement**

**See the hose manufacturer's warranty regarding any warranty applicable to the hose.** ICP Building Solutions Group makes no warranty regarding the hose and it is sold "AS IS" and ALL EXPRESSED AND IMPLIED WARRANTIES ARE EXPRESSLY DISCLAIMED. Liability for any indirect, incidental or consequential damage or loss is specifically excluded.