




# TECHNICAL DATA SHEET

## HANDIFOAM® FIREBLOCK SEALANT FOR USE IN CANADA



### LOW PRESSURE POLYURETHANE FOAM SEALANT INFORMATION

<b>Description</b>	Low pressure, one-component, polyurethane foam sealant
<b>OCF</b>	One Component Foam
<b>Applications</b>	Designed to seal/fireblock penetrations between rooms and floors. Specifically designed for use in extreme temperatures and low humidity conditions. Effective at blocking smoke and toxic gases. The product is for use in Type V residential penetrations. Fireblock sealants are not intended for hourly rated assemblies. Products have not been tested to CAN/ULC-S101, "Fire Endurance Tests of Building Construction and Materials" to obtain a fire resistance rating.
<b>Preparation for use</b>	Substrate must be clean, dry, free of loose particles, and free of dust, grease and mold release agents.
<b>Use</b>	Optimal product temperature is 65-80°F (18-27°C). <b>Gun foam option:</b> 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. <b>Straw foam option:</b> attach the straw, shake well, invert the container, and begin dispensing. By activating the adapter lever carefully, the extrusion rate can be regulated.
<b>PPE</b>	 <p>Recommend using only 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 safety information prior to use. Consult the product's SDS (available at <a href="http://www.HandiFoam.com">www.HandiFoam.com</a>).</p>
<b>Note</b>	FOR PROFESSIONAL USE ONLY. Always check the local building code before use. Cured low pressure polyurethane foam is non-toxic and inert.
<b>Product Storage</b>	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.
<b>Temperature</b>	For best results, chemical temperature must be between 65-80°F (18-27°C). Cured foam is resistant to heat and cold, -200°F to 240°F (-129°C to 116°C).
<b>Disposal</b>	Refer to SDS (Section 13) for instructions. Do not incinerate containers. Relieve containers of any remaining pressure and foam before discarding. Always wear PPE during the disposal process and make sure discarded foam is fully cured.
<b>Shelf-life</b>	15 months (expiration date located on the bottom of the container)
<b>Compatibility</b>	Cured low pressure 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 plastics. The product is not resistant to UV rays; if left exposed, the product should be coated or painted.

### TECHNICAL DATA

### STANDARD

### RESULTS

<b>Density- Gun Foam</b>	ASTM D1622	1.00 lbs/ft <sup>3</sup> (16 kg/m <sup>3</sup> )
<b>Density- Straw Foam</b>		1.10 lbs/ft <sup>3</sup> (17.6 kg/m <sup>3</sup> )
<b>K-factor</b>	ASTM C518	0.222 BTU·inch/ft <sup>2</sup> ·h·°F
<b>R-Value</b>	ASTM C518	4.50 per Inch
<b>Air Barrier Properties</b>		
@1.57 psf (75 Pa)	ASTM E2178	<0.00028 cfm/ft <sup>2</sup> (<0.0014 L/s/m <sup>2</sup> )
<b>Compressive Strength</b>	ASTM D1621	6.38 psi (43.9 kPa)
<i>Parallel to rise</i>		

## TECHNICAL DATA (Continued)

<b>Tensile Strength</b> <i>Parallel to rise</i>	ASTM 1623	12 psi (83 kPa)
<b>Dimensional Stability</b>	ASTM D2126	+/- 5%
<b>Tack-Free</b>	Tack-Free	Approx. 5 minutes
<b>Closed-Cell Content</b>	ASTM D6226	77%
<b>Cuttable</b>		1 hour
<b>Fire Rating- Caulking &amp; Sealant</b> Tested 3 beads @ 3/4" (0.9 cm) Thickness on Inorganic Reinforced Cement Board	CAN/ULC S102	Flame Spread Index 25 Smoke Developed 50
<b>Fire Rating- Caulking &amp; Sealant</b> Tested 3 beads @ 3/4" (0.9 cm) Thickness on Inorganic Reinforced Cement Board	ASTM E84/UL 723	Flame Spread Index 25 Smoke Developed 50
<b>Fire Rating</b>	ASTM E814-Modified	Alternative for maintaining the integrity of penetrations of fireblocking
<b>NFPA 286</b>	Tested to allow for the use of HandiFoam® Fireblock to be used without a thermal barrier when the maximum width must not exceed 1 7/16 inches (3.7 cm) and the nominal foam thickness must not exceed 1 1/2 inches (3.8 cm). The maximum area of exposed sealants must not exceed 18 sq inches (116 cm <sup>2</sup> ) per 1 sq ft (929 cm <sup>2</sup> ).	
<b>Fungi Resistance</b>	ASTM G21	No Growth

## APPROVALS/STANDARDS/CLASSIFICATIONS

<b>ASTM E84/UL 723</b>	UL Classified File #R13919
<b>CAN/ULC S102</b>	ULC Classified File #R13919
<b>CCMC</b>	CCMC #13626-L
<b>NFPA 30B</b>	Level 2 Aerosol
<b>VOC Content (calculated)</b>	165 g/L or 16%
<b>UL Evaluation Report</b>	ER13919-01
<b>ULe GREENGUARD</b>	Gold



## TEMPERATURE

<b>Product Storage</b>	<122°F (50°C)
<b>Application</b>	0-100°F (-18-38°C)
<b>Chemical</b>	65-80°F (18-27°C)
<b>Cured Foam</b>	-200°F to +240°F (-129°C to +116°C)

## YIELD<sup>1</sup> in Linear Feet (Meters)

	<b>1/4" (6.3 mm)</b>	<b>3/8" (9.5mm)</b>	<b>1/2" (12.7mm)</b>	<b>Volume</b>
<b>12oz (340g) Straw Foam P30033C</b>	1996 ft (608 m)	887 ft (270 m)	499 ft (152 m)	.68 ft <sup>3</sup> (19 L)
<b>24oz (680g) Straw Foam P30192C</b>	3992 ft (1217 m)	1774 ft (541 m)	998 ft (304 m)	1.36 ft <sup>3</sup> (39 L)
<b>24oz (680g) Gun Foam P30181C</b>	4403 ft (1342 m)	1957 ft (596 m)	1101 ft (336 m)	1.50 ft <sup>3</sup> (42 L)

<sup>1</sup> Yield is based on density. We state our core density when describing the foam. We use theoretical calculations for comparative purposes so the results will vary depending on ambient conditions and use in particular applications.

**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.handifoam.com](http://www.handifoam.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 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 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.

**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.



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