



TECHNICAL DATA SHEET

LOW PRESSURE POLYURETHANE INSULATING FOAM SYSTEMS

LOW PRESSURE POLYURETHANE FOAM INFORMATION

Description	Low pressure, medium density, two-component spray polyurethane foam
SPF	Spray Polyurethane Foam
Applications	Designed to fill and seal various size voids, deaden sound or reduce vibration. Conforms to the requirements of ASTM E84 as a Class 1 (A) system.
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, and Operating Instructions before beginning. For additional information go to www.sealsprayfoam.com
Use	Condition chemical to 75-85°F (24-29°C). Follow instructions for set-up found in the operating instructions.
PPE	 <p>Recommend using in a well-ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). 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.</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 chart located on page 2
Product Storage	Store in a dry area. Do not expose the kits or tanks 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 according to applicable federal, state, provincial and local 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.

TECHNICAL DATA

STANDARD

RESULTS

Density Free Rise	ASTM D1622	1.75 lbs/ft ³ (28 kg/m ³)
Density In-place		2.12 lbs/ft ³ (34 kg/m ³)
K-factor - Initial	ASTM C518	0.139 BTU·inch/ft ² ·h·°F
Aged 90 days 140°F (60°C)		0.166 BTU·inch/ft ² ·h·°F
Aged 90 days 140°F (60°C)		0.083 BTU·inch/ft ² ·h·°F
R-Value - Initial	ASTM C518	7.2 at 1 inch thickness
Aged 90 days 140°F (60°C)		6.0 at 1 inch thickness
Aged 90 days 140°F (60°C)		12.0 at 2 inch thickness
Air Barrier Properties	ASTM E283	0.003 cfm/ft ² (0.02 L/s/m ²)
Tested at 1 inch thickness @1.57 psf (75Pa)		
Air Permeance	ASTM E2178	0.02 L/s/m ²
Tested at 2 Inch Beads		
Compressive Strength	ASTM D1621	26 lbf/in ² (182 kPa) Parallel 16 lbf/in ² (110 kPa) Perpendicular

TECHNICAL DATA (Continued)

Dimensional Stability	ASTM D2126	+/- 5%
Tack-Free/Expansion Time	Tack-Free/Expansion Time	30-60 seconds
Closed-Cell Content	ASTM D2856	95%
Tensile Strength	ASTM D1623	OSB 20 lbf/in2 (137 kPa) CMU 25 lbf/in2 (172 kPa) Steel 22 lbf/in2 (152 kPa)
Cuttable		2-5 minutes
Fungi Resistance	ASTM G21	No Growth
Perm Rating- Method A		
1" Thick (2.54 cm)	ASTM E96	1.67 (100 ng/(m ² ·Pa·s))- Class III Vapor Retarder
2" Thick (5.08 cm)		1.44 (82 ng/(m ² ·Pa·s))- Class III Vapor Retarder
3" Thick (7.62 cm)		1.00 (57 ng/(m ² ·Pa·s))- Class II Vapor Retarder
Water Absorption	ASTM D2842	2.9%
Fire Rating- Tested at 2" Thickness	ASTM E84	Flame Spread Index 20 Smoke Developed 400
Fire Rating	FMVSS 302/ CMVSS 302	Meets/ Burn Rate 0/00 min

APPROVALS/STANDARDS/CLASSIFICATIONS

NFPA 286	Testing for use in roof/wall junctions and attic/wall penetrations at 2" thickness x 6" wide with unlimited length without a thermal barrier.
NFPA 286-Modified	Tested with No Burn Plus XD Ignition Barrier. Can be used in attic and crawlspace applications when certain qualifying conditions are met.

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)

YIELD¹ (1.75 Density)

	Weight (Including packaging)	Board Feet	Cubic Feet	Linear Feet	Linear Feet
SEALIFS205	41 lbs	205 (19 m ²)	17 ft ³ (.48 m ³)	3132 at 1 inch bead	783 at 2 inch bead
SEALIFS605	115.7 lbs	605 (56.2 m ²)	50 ft ³ (1.42 m ³)	9236 at 1 inch bead	2309 at 2 inch bead

¹ 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.

LIMITED WARRANTY

The Manufacturer warrants only that the product shall meet its specifications: this warranty is in lieu of all other written or unwritten, expressed or implied warranties and The Manufacturer expressly disclaims any warranty of merchantability, or fitness for a particular purpose. The buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the replacement of the material. Failure to strictly adhere to any recommended procedures shall release the Manufacturer of all liability with respect to the materials of the use thereof. User of this product must determine suitability for any particular purpose, including, but not limited to, structural requirements, performance specifications and application requirements prior to installation and after product has been properly applied.

DISCLAIMER

Seal Spray Foam two-component spray foam products are composed of a diisocyanate, blowing agent, amine catalyst and polyol. Consult the product's SDS (available at www.sealsprayfoam.com) for specific information. 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). Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Recommend using in a well ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). See SDS (available at www.sealsprayfoam.com) for specific information. For more information regarding a certified respiratory program please visit <http://www.cdc.gov/niosh/>. For professional use only.

WARNINGS

WARNING: 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. Avoid prolonged or repeated breathing of vapor. KEEP OUT OF REACH OF CHILDREN.

FIRST AID: In any first aid case, CONSULT A PHYSICIAN. **EYES:** Flush with water for at least 15 minutes. **SKIN:** Remove contaminated clothing. Wash skin with plenty of soap and water. Cured foam must be removed manually. **INHALATION:** If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. **INGESTION:** Give large quantities of water. Do NOT induce vomiting. Contact a physician immediately in any first aid situation. Consult the product's SDS (available at www.sealsprayfoam.com) for specific information.

IMPORTANT

Always read all operating, application and safety instructions before using any products from Seal Spray Foam. 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 Seal Spray Foam of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call Seal Spray Foam 888-243-3339.

NOTE: Physical properties shown are typical and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal 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. Yields shown are optimum and will vary slightly depending on ambient conditions and particular application. Read all product directions and safety information before use. This product is organic, and therefore, is combustible. Consult local building codes for specific requirements regarding the use of cellular plastics or urethane foam in construction.

Seal Spray Foam

5717 Salmen Street New Orleans, LA 70123

888-243-3339 | www.sealsprayfoam.com