




TECHNICAL DATA SHEET

HANDI-FOAM® 40 SERIES CYLINDER FOAM SEALANT



LOW PRESSURE POLYURETHANE FOAM SEALANT INFORMATION

Description	Low pressure, one-component, polyurethane foam sealant
OCF	One Component Foam
Applications	Used to fill and seal around gaps and penetrations in the building envelope to stop air infiltration. Application areas: cracks, crevices, beneath base plates, mud sills, corner joints, exterior cracks, around utility panels, pipes and duct penetrations, etc. Designed for the contractors using large amounts of foam to insulate and air seal.
Preparation for use	Substrate must be clean, dry, free of loose particles, and free of dust, grease and mold release agents.
Use	Optimal product temperature is 65-80°F (18-27°C). Open top flap of box and remove accessories and tank. Attach ball valve (on/off valve) in closed position onto end of hose and tighten with a wrench. USE THREAD SEALING TAPE OR LIQUID TO PREVENT LEAKAGE ON EVERY CONNECTION. Kits include two wands of different lengths. A six inch wand and a ten inch wand. Choose the size brass nozzle wand that fits your needs. If using kit with metal nozzle, install on the end of ball valve with a wrench. If using kit with optional reusable one-component dispensing unit, refer to instructions included with dispensing unit for detailed information on its use. SHAKE KIT WELL. Remove plastic valve protector from cylinder outlet, hand tighten hose fitting to cylinder. Then use a wrench to thoroughly tighten. Open cylinder valve completely (making sure ball valve is in closed position).
PPE	 <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 www.icpadhesives.com).</p>
Note	FOR PROFESSIONAL USE ONLY. Always check the local building code before use. Cured low pressure polyurethane foam is non-toxic and inert.
Product Storage	Store upright in a dry area. Insert nail into end of nozzle to restrict moisture from entering. For longer storage, remove nozzle and spray cleaning solvent through nozzle and around ball valve. Wrap hose end with plastic. Do not disconnect the dispensing hose. Do not remove hoses from cylinders. Do not flush/clean hoses with air, water, or solvent. Removing and/or cleaning hoses will compromise the foam. 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.
Temperature	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).
Disposal	Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders in accordance with all applicable federal, state, provincial and local regulations.
Shelf-life	12 months (expiration date located on the bottom of the container)
Compatibility	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
Density	ASTM D1622	1.50 lbs/ft ³ (24 kg/m ³)
K-factor	ASTM C518	0.200 BTU·inch/ft ² ·h·°F
R-Value	ASTM C518	5.00 per Inch
Air Barrier Properties- <i>estimated</i>		
@1.57 psf (75 Pa)	ASTM E2178	<0.00028 cfm/ft ² (<0.0014 L/s/m ²)
Compressive Strength <i>Parallel to rise</i>	ASTM D1621	5.2 psi (36 kPa)
Dimensional Stability	ASTM D2126	+/- 5%
Tack-Free	Tack-Free	Approx. 5 minutes

TECHNICAL DATA (Continued)

Closed-Cell Content	ASTM D6226	60%
Cuttable		1 hour
Fire Rating- Caulking & Sealant Tested 3 beads @ 3/4" Thickness	ASTM E84/UL 723	Flame Spread Index 25 Smoke Developed 50

APPROVALS/STANDARDS/CLASSIFICATIONS

ASTM E84/UL 723	UL Classified File #R13919	GREENGUARD- Gold Certification
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**TEMPERATURE**

Product Storage	<122°F (50°C)
Application (Substrate)	40-100°F (4-38°C)
Chemical	65-80°F (18-27°C)

YIELD¹ (1.50 Density); Linear Feet (Meters)

	1/4" (6.3 mm)	3/8" (9.5mm)	1/2" (12.7mm)	Volume
I-160 P40340 P40340 P40341 (Cylinder only)	19572 ft (5965 m)	8688 ft (2648 m)	4887 ft (1489m)	6.66 ft ³ (189 L)
I-260 P40540 P40540 P40541 (Cylinder only)	31347 ft (9554 m)	13914 ft (4241 m)	7827 ft (2386 m)	10.66 ft ³ (302 L)

¹ 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.

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 Adhesives & Sealants, Inc. of all liability with respect to the materials or the use thereof. For additional information and location of your nearest distributor, call ICP Adhesives & Sealants Inc. 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. 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.icpadhesives.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.icpadhesives.com). Read the SDS (www.icpadhesives.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, ICP Adhesives & Sealants' Product Stewardship Guidelines, and operating instructions for guidance on the safe and proper application of the product (www.icpadhesives.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 Adhesives & Sealants, Inc. warrants only that the product shall meet ICP Adhesives & Sealants, Inc. specifications for the product when shipped by ICP Adhesives & Sealants, Inc. 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 Adhesives & Sealants, Inc. 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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