

#700 ARMOR FLASH-SPF

LOW PRESSURE SPRAY POLYURETHANE FOAM (SPF) FOR LOW SLOPE COMMERCIAL ROOFING

APOC® ARMOR FLASH-SPF is a two-component, low pressure, high density spray polyurethane foam. It is ideally suited for roofing repairs prior to application of coatings, maintenance systems or complete restoration systems. Armor Flash-SPF can be used on low slope sprayed polyurethane foam (SPF) systems, BUR, mod-bit and other roofing substrates. Armor Flash-SPF seals holes, pipes, vents, curbs, base flashings and other penetrations and projections which aids in preventing water, rodents, birds or other animals, etc. from entering a building. Armor Flash-SPF is an extremely fast and durable application that saves time, labor and money which is ideal in today's competitive marketplace. This product is formulated utilizing an HFO blowing agent which is part of our ongoing commitment to developing foam chemistries with lower global warming impact and enhanced product performance.



NEW HIGH DENSITY ROOFING PATCH & REPAIR SPRAY FOAM PRODUCT with a compressive strength of 40 psi.

SMOOTH SURFACE FINISH reduces the need for extra coating layers or smoothing the foam surface prior to final coating application.

NO POWER required, allowing for easy transportation.

PORTABLE & DISPOSABLE kit.

FILLS GAPS & CRACKS of various sizes to reduce air leaks and thermal breaks.

COLORWISE® Temperature Warning Nozzles - shows the chemical is being applied at the proper temperature.





700

ARMOR FLASH-SPF

DATA SHEET

DESCRIPTION: APOC® ARMOR FLASH-SPF is a two-component, low pressure, high density spray polyurethane foam. It is ideally suited for roofing repairs or any application where foot traffic is expected and a high compressive strength foam is required. The smoother surface finish reduces the need for extra coating layers or secondary smoothing of the foam surface prior to coating application. **This product is formulated utilizing an HFO blowing agent which is part of our ongoing commitment to developing foam chemistries with lower global warming impact and enhanced product performance.**

PREPARATION: 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.APOC.com.

APPLICATION: Condition chemical to 75-85°F (24-29°C). Follow instructions for set-up found in the operating instructions.

PERSONAL PROTECTIVE EQUIPMENT (PPE): 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.

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 in the operating instructions.

PRODUCT STORAGE: Store in a dry area. Do not expose the kits or cylinders 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 in accordance with applicable local/regional/national/international 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.

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 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.icpgroup.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.icpgroup.com). Read the SDS (www.icpgroup.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's Product Stewardship Guidelines, and operating instructions for guidance on the safe and proper application of the product (www.icpgroup.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.**

TECHNICAL DATA	STANDARD	RESULTS
Density <i>Free Rise</i>	ASTM D1622	3.10 lbs/ft ³ (50 kg/m ³)
K-Factor <i>Initial</i>	ASTM C518	0.164 BTU-inch/ft ² ·h·F
R-Value <i>Initial</i>		6.5 at 1 inch thickness
<i>Aged 90 days at 140°F (60°C)</i>	ASTM C518	5.2 at 1 inch thickness
Compressive Strength	ASTM D1621	40 lbf/in ² (275 kPa) Parallel
Dimensional Stability	ASTM D2126	+/- 5%
Tack-Free/Expansion Time		30-60 seconds
Closed-Cell Content	ASTM D2856	95%
Cutable		2-5 minutes
Tensile Strength	ASTM D1623	40 lbf/in ²
Fire Rating <i>Tested at 2" Thickness</i>	ASTM E84	Flame Spread Index 15 Smoke Developed 450

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)

YIELD

	WEIGHT	BOARD FEET	CUBIC FEET
AP-700-115	41 lbs.	115 (10.7 m ²)	9.6 ft ³ (.27 m ³)

VOC <25 g/L (minus exempt compounds) per EPA Method 24

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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