



TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Tensile Strength (ASTM D412)	29 psi
Density (ASTM D1622)	2.1 lbs/ft ³
Compressive Strength (ASTM 1623)	18 psi parallel 14 psi perpendicular
Water Absorption (ASTM D2842)	0%
Moisture Vapor Transmission (ASTM E96)	1.7 perms (water method) 2.3 perms (desiccant method)
Dimensional Stability (ASTM D2126)	@ 40°F +0.12% @ 158°F +6.0%
Closed Cell Content (ASTM 2856)	94%
Open Time*	1-2 minutes
Mixing Nozzle Working Time	1 minute
Set-Up Time*	10-20 minutes
Full Cure Time*	24-48 hours
Chemical Temperature	70-90°F (21-32°C)
Surface Temperature	40-100°F (4-38°C)
Outside Temperature	40-100°F (4-38°C)
Product Storage Temperature	50-100°F (10-38°C)
Shelf Life	12 months (kits) 6 months (refill)

* Times may be affected by temperature & weather conditions.

DESCRIPTION:

APOC Polyset AH-160 Roof Tile Adhesive is the professional roofer's complete solution for concrete or clay roof tile attachment. APOC Polyset AH-160 is a two-component, low-pressure polyurethane adhesive that adheres each individual tile in place and can be used without mechanical fasteners so it won't puncture the waterproofing membrane or the roof deck. APOC Polyset AH-160 has superior holding power compared to nails, screws, mortar and wire tie systems. This adhesive formulation is designed specifically with a blue tint that is unique to APOC and allows for easy product identification which serves as quality control for APOC and its users with unmatched training and support. APOC Polyset AH-160 is available in both disposable and refillable systems. The disposable products are self-contained, ready to dispense kits consisting of A and B cylinders, a Handi-Gun dispensing unit and Colorwise Temperature Warning Nozzles. These portable, simple-to-use kits make it easy to access hard-to-reach areas, require no additional power and provide fast application. The refillable systems provide a higher rate of coverage vs. the disposable options, minimal equipment investment, no additional power and saves landfill space with the refill process. The refillable systems are dispensed using the patented Handi-Gun Dispensing Unit and ColorWise Temperature Warning Nozzles.



PREPARATION:

Completely read all application instructions and check weather conditions prior to starting any work. All surfaces must be completely clean and dry, have proper drainage and be free of dirt, dust, oil, loose paint, wax or grease and any other foreign matter.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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.

APPLICATION:

For best results, all surfaces to be bonded must be clean, dry and free from dirt, dust, oil, loose paint, wax or grease, etc. The temperature of the adhesive should be between 70-90°F (21-32°C). The surfaces being bonded should be at 40°F (4°C) or above. Temperatures outside this range may affect bonding range, dispensability and performance of the product. In colder weather, product should be stored in a temperature controlled environment for at least 24 hours prior to application.

YIELD:

PRODUCT NUMBER	DESCRIPTION	COVERAGE (30g med. paddy)	NET WEIGHT
P10110	ProPack 30	400	26.5 lbs (12kg) / Kit
P10111	ProPack 100	1,295	85.3 lbs (38.7kg) / Kit
P22509	17 gallon A-Side	4,384	207 lbs (93.9kg) A-Component
P22507	17 gallon B-Side		197 lbs (83.4kg) B-Component
P22364	60 gallon A-Side	10,281	350 lbs (158.8kg) A-Component
P22365	60 gallon B-Side		330 lbs (149.7kg) B-Component

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.

PERSONAL PROTECTIVE EQUIPMENT



PROTECTIVE GLASSES WITH SIDE SHIELDS OR GOGGLES



PROTECTIVE CLOTHING



NITRILE GLOVES



RECOMMENDED CERTIFIED RESPIRATORY PROTECTION



RECOMMENDED WELL-VENTILATED AREA

ADHESIVE PLACEMENT FOR TILE PROFILE*:

TILE PROFILE	MINIMUM PADDY CONTACT AREA	MINIMUM PADDY GRAM WEIGHT
Flat Low High	17-23 sq. inches	45-65
Flat	10-12 sq. inches	30
Low	12-14 sq. inches	30
High	17-19 sq. inches	30
Flat Low High	Two Paddies: 8-9 sq. inches at head of tile 9-11 sq. inches at overlap	12 grams per paddy
Two-Piece Barrel (Cap Tile)	Two beads (1 each longitudinally) 20-25 sq. inches each bead	17 grams per paddy
Two-Piece Barrel (Pan Tile)	65-70 sq. inches	34 grams under pan

* See NOA No.: 17-0322.03 for tile placement illustrations.

STORAGE:

Store in a dry area. Optimum chemical storage temperature is 50-100°F (10-38°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life. Do not allow material to freeze.

LIMITATIONS:

Do not use when ambient substrate temperatures are below 40 F (4C). 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. Not recommended for products surfaced with polypropylene or silicone-based surfaces. Cured foam adhesive should be painted or coated if exposed to UV rays (sunlight).

DISPOSAL:

Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders in according to applicable federal, state, provincial and local regulations.

FALL PROTECTION WARNING:

Always use personal fall protection devices and follow procedures in accordance with OSHA and local regulatory requirements when walking or working on roofs. Use safety equipment such as tie-offs, safety lines, body harnesses, toe boards and ladders. Dusty, damp or wet conditions, as well as certain shoes can result in slippery surfaces and create a fall hazard. Always be cognizant of where you are in relation to your surroundings including but not limited to: the edge of the roof, any projections, skylights and any other objects which could cause you to slip or fall. Falling from a roof can result in serious harm or death.

WARRANTY AND DISCLAIMER:

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.polysetadhesives.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.