



#### TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

|                                        |                         |
|----------------------------------------|-------------------------|
| Tensile Strength (ASTM D412)           | 29 psi                  |
| Density (ASTM D1622)                   | 2.8 lbs/ft <sup>3</sup> |
| Compressive Strength (ASTM 1612)       | 11 psi                  |
| Water Absorption (ASTM D471)           | 4.2%                    |
| Fire Rating at 1" Thickness (ASTM E84) |                         |
| Flame Spread                           | 15                      |
| Smoke Developed                        | 200                     |
| Open Time*                             | 1-10 minutes            |
| Mixing Nozzle Working Time             | 30 seconds              |
| Set-Up Time*                           | 10-30 minutes           |
| Full Cure Time*                        | 24 hours                |
| Chemical Temperature                   | 70-85°F (21-29°C)       |
| Surface Temperature                    | 30-100°F (-1-38°C)      |
| Outside Temperature                    | 30-100°F (-1-38°C)      |
| Product Storage Temperature            | 45-90°F (7-32°C)        |
| Shelf Life                             | 18 months               |

\* Times may be affected by temperature & weather conditions.

\*\* Coverage rates may vary based on ambient temperature and application.

**VOC: 98 g/L (regulatory)**

#### DESCRIPTION:

**APOC Polyset Low Slope Commercial Roof Adhesive** is a low-rise, two-component polyurethane foam adhesive that is ideal for adhering a variety of insulation boards, cover boards, as well as fleece back membranes to various substrates in both new and re-roof applications. It is FM approved for use with most roofing system manufacturers' products. 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 faster application on open roofs. This refillable systems provide a lower applied cost per square foot, 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 70-85°F (21-29°C). The surfaces being bonded should be at 30°F (-1°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.

#### STORAGE:

Store in a dry area. Optimum chemical storage temperature is 50-90°F (10-32°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life. Do not allow material to freeze.

#### DISPOSAL:

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

#### YIELD\*\* AND WEIGHT:

| PRODUCT NUMBER  | MAX. YIELD: SPATTER PATTERN | MAX. YIELD: 2.5" BEAD, 12" OC | NET WEIGHT                                                     |
|-----------------|-----------------------------|-------------------------------|----------------------------------------------------------------|
| P12051          | 9 squares                   | 11 squares                    | 27.7 lbs (12.7kg) / Kit                                        |
| P12050          | 30 squares                  | 35 squares                    | 44.5 lbs (20.2kg) A-Component<br>44.1 lbs (20.0kg) B-Component |
| P23054 / P23055 | 110 squares                 | 130 squares                   | 150 lbs (68kg) A-Component<br>148 lbs (67.1kg) B-Component     |

#### PERSONAL PROTECTIVE EQUIPMENT



**PROTECTIVE  
GLASSES WITH  
SIDE SHIELDS OR  
GOGGLES**



**PROTECTIVE  
CLOTHING**



**NITRILE  
GLOVES**



**RECOMMENDED  
CERTIFIED  
RESPIRATORY  
PROTECTION**



**RECOMMENDED  
WELL-VENTILATED  
AREA**

#### COMPATIBLE ROOF DECKS AND SUBSTRATES:

- Structural Concrete
- Asphalt Primed Concrete
- Pre-cast Concrete
- Various BUR (smooth or gravel)
- Steel-22 Gauge or lower with approved cross section
- Lightweight Structural Concrete
- Cementitious Wood Fiber Planks
- Insulating Concrete
- Vapor Retarders (hot, cold, torch-applied)
- Gypsum

#### COMPATIBLE ROOF INSULATION AND COVER BOARDS:

- Polyisocyanurate (flat or tapered)
- Extruded or Expanded Polystyrene
- High Density Wood Fiber
- Gypsum Boards
- Cement Roof Boards

#### 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](http://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<sup>®</sup> 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.