TECHNICAL DATA SHEET

POLYSET® BOARD-MAX

LOW PRESSURE POLYURETHANE FOAM INFORMATION

Description	Low pressure, low-rise, two-component polyurethane roofing adhesive
Applications	Bead applied foam adhesive specifically designed to adhere a variety of insulations to various substrates in both new and existing applications.
Preparation for use	Substrate must be clean, dry, firm, free of loose particles or sharp edges that may interfere with the placement and complete contact of material being installed. Protect surfaces not to be foamed. Read SDS, Operating Instructions, and Product Stewardship Guidelines. For additional information go to www.icpadhesives.com
Use	Warm/Cool chemical to 70-85°F (21-29°C). Follow instructions for set-up found in the operating instructions. SPF Roofing Adhesives are combustible and will burn if exposed to open flame. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to Polyset Board-Max or any polyurethane foam.
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.
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. Lower substrate application temperatures will increase gel and tack free times. The applicator can also expect a slower rise time.
Product Storage	Store in a dry area. Optimum chemical storage temperature is 60-90°F (16-32°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 accordance with applicable local/regional/national/international regulations.
Shelf-life	12 months
Compatibility	Polyset Board-Max is compatible with rigid insulation board, gypsum board, recover board, spray foam, smooth or gravel BUR, mineral cap sheets, smooth or granulated mod-bit. Decks include: 15/32" APA rated plywood, 22 MSG steel, and structural concrete.
Limitations	Do not use with board stock larger than 4' x 4'. Do not use during inclement weather. Do not use after the expiration date. Do not apply on wet materials. Existing SPF roofs may need to be primed or scarfed depending on coating before application.

TECHNICAL DATA	STANDARDS	RESULTS
Density	ASTM D1622	2.9 lb/ft^3 (46.4 kg/m^3)
Tensile Strength	ASTM D1623	47 psi (324 kPa)
Water Absorption	ASTM D2842	4.39%
Fire Rating	ASTM E84	Flame Spread Index 15-25 at ½" thick Smoke Developed 150-200 at ½" thick

PROPERTIES

Rise Time	2-16 seconds[1]
Mixing Nozzle Working Time	30-60 seconds[1]
Gel Time	15-140 seconds[1]

PROPERTIES (Continued)

Set-up Time (Tack Free)	1-5 minutes[1]
Cure Time	24 hours[1]
VOC Compliant	Contains 0% VOC Minus Exempted Materials

[1]Times may be affected by temperature and weather conditions

APPROVALS/STANDARDS/CLASSIFICATIONS

UL- Underwriters Laboratories - R39032 Testing in accordance with UL1897 (See UL's website for the different construction configurations)

FM- Factory Mutual - Completed testing in accordance with FM Approval Class 4470 and is a component in many roof assemblies identified by a FM Roof Assembly Number. Detailed information regarding roofing assemblies is accessible from FM Approval's RoofNav online tool. Roof Decks: Concrete, Steel and Recover available. Uplift range is between 60 psf to 990 psf.

Miami Dade NOA - 17-0214.04

Florida Product Approval - FBC Approved – FL22256

TEMPERATURE GUIDELINES

Chemical Storage Temperature	60-90°F (16-32°C)
Outside Application Temperature/Ambient	30-100°F (-1-38°C)
Process Core Chemical Temperature	70-85°F (21-29°C)
Surface Temperature (Substrate/Deck)	30-100°F (-1-38°C)
Cured Foam	$^{-}$200°F to $^{+}$240°F ($^{-}$129°C to $^{+}$116°C)

YIELD*

Product Number	**2.5" Bead, 12" OC**
62000280322	900 sq ft (83.6 m^2)
62496580322	3000 sq ft (278.7 m^2)

*Coverage rates may vary based on ambient temperature and application

COMATIBLE ROOF DECKS AND SUBSTRATES

- Structural Concrete
- Asphalt Primed Concrete
- Pre-cast Concrete
- Various BUR (smooth or gravel)
- Base Sheets
- 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 INSULATIONS AND COVER BOARDS

- Polyisocyanurate (flat or tapered)
- Extruded or Expanded Polystyrene
- High density wood fiber
- Gypsum boards
- Cement roof boards

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.