



INNOVATIONS THAT
IMPROVE.[®]
POLYSET[®] PRODUCT GUIDE

ABOUT ICP ADHESIVES & SEALANTS

ICP Adhesives and Sealants, Inc. (ICP) has been a leading manufacturer in the low pressure polyurethane foam industry since 1975. We pride ourselves on our ability to service companies large and small with the same one-on-one attention.

INNOVATIONS THAT **IMPROVE.**[®]

As an industry leader, ICP is built on the foundation of Innovations that Improve[®] through its commitment to **develop products, exclusive technologies, and services** that improve the overall **product performance, safety and experience** for our customers.



UNPARALLELED SERVICE

ICP provides accessible, personalized support when you need it. We have long standing relationships with our distributors and partners since 1975. Relationships that were built on trust, respect and doing right by our customers.



PRODUCT STEWARDSHIP

ICP is an industry leader in product and environmental stewardship. Our Work Smart program has educated thousands on the safe and proper use of low pressure polyurethane foam adhesive products. In addition, many of the ICP Adhesive & Sealants' products carry the prestigious GREENGUARD GOLD certification signifying that our products are low emitting and contribute to healthier indoor environments.



TRAINING

The proper education on the storage, use and application of Polyset roofing adhesive products is essential and ICP provides the tools to make it happen. From extensive product documentation and in-person training events, ICP is committed to delivering everything you need to succeed.





POLYSET® ROOFING ADHESIVES

Polyset® roofing adhesives provide low pressure solutions for steep slope roof tile adhesion and low slope commercial roofing applications. Polyset products are available in the form of low pressure one- and two-component polyurethane foam adhesives in pressurized disposable and refillable packaging. All Polyset roofing adhesive products offer speed and simplicity through unique dispensing technology, strong adhesion properties, along with ease in application and durability. For steep slope applications, Polyset roof tile adhesives are approved for use in the most stringent high-wind regions of the world. For low slope applications, Polyset commercial roofing adhesives are specifically designed to adhere insulation boards, cover boards and single ply fleeceback membranes to various substrates.

APPLICATIONS INCLUDE:

- Single-ply fleeceback membrane adhesion
- Insulation & cover board adhesion
- New and re-roof applications
- Clay and concrete roof tiles
- And many more



STEEP SLOPE ROOFING SOLUTIONS



POLYSET® AH-160

ROOF TILE ADHESIVE

Polyset® AH-160 is the professional roofer's complete solution for concrete or clay roof tile attachment. Polyset AH-160 is a two-component, low-pressure polyurethane adhesive that adheres each individual tile in place. It can be used without mechanical fasteners so it won't puncture the waterproofing membrane or the roof deck. Polyset AH-160 has superior holding power compared to nails, screws, mortar and wire tie systems.



ITEM	DESCRIPTION	YIELDS*
62481281509	AH-160 17 GAL. REFILL PART A	4384 tiles
62484681507	AH-160 17 GAL. REFILL PART B	
62481283000	AH-160 60 GAL. REFILL PART A	17,236 tiles
62484683008	AH-160 60 GAL. REFILL PART B	
62481389104	AH-160 PROPACK 30 KIT	400 tiles
62481389302	AH-160 PROPACK 100 KIT	1,295 tiles

*Theoretical installed tiles per package based on 2" x 7" medium paddy. See product specific TDS for additional information.

VARIETY OF APPLICATIONS & BENEFITS

- Adheres concrete or clay roof tiles and other roofing components
- Ideal for installing cut pieces at hips and valleys
- Prevents tile chattering
- Excellent for high wind hip and ridge tile application
- Virtually eliminates nail penetrations
- Minimizes tile installation damage associated with mechanical fasteners
- Contains no VOCs (minus exempted compounds)

RTA-1 TECHNICAL DATA*

APPROVALS	Miami Dade (NOA) Florida Product Approval FL6276-R5
OPEN TIME	1 - 5 minutes**
SET-UP TIME	10 - 20 minutes**
FULLY CURED TIME	24 - 48 hours
SHELF LIFE	12 months

*See product specific TDS for additional information.

**Times may be affected by temperature and weather conditions.





VARIETY OF APPLICATIONS & BENEFITS

- High wind environments
- Non-nailable decks: Concrete, Metal, Insulation/gypsum board
- Low or steep slopes
- Roofs needing increased thermal performance
- Concrete, clay and especially lightweight tiles that require enhanced walkability

AH-160 TECHNICAL DATA*

APPROVALS	Miami Dade (NOA) Florida Product Approval FL6332-R6 ICC ESR-1709
OPEN TIME	1 - 2 minutes**
SET-UP TIME	10 - 20 minutes**
FULLY CURED TIME	24 - 48 hours
SHELF LIFE	12 months

*See product specific TDS for additional information.

**Times may be affected by temperature and weather conditions.



POLYSET® RTA-1

ROOF TILE ADHESIVE

Polyset® RTA-1 is a single-component polyurethane adhesive specifically designed to bond concrete and clay roofing tiles to compatible underlayment on new construction and repair work. The unique product properties, improved performance, and professional dispensing unit give Polyset RTA-1 many advantages over the use of traditional fastening methods such as mortar, nails, screws, or other one component adhesives.

ITEM	DESCRIPTION	YIELDS*
62480749308	RTA-1 26 OZ (12 PACK)	30 tiles (per can)
62480880202	RTA-1 23 LB CYLINDER	722 tiles

*Theoretical installed tiles per package based on low profile tile. See product specific TDS for additional information.



LOW SLOPE ROOFING SOLUTIONS



POLYSET® CR-20®

FLEECEBACK MEMBRANE ROOFING ADHESIVE

Polyset® CR-20® is a low-rise, two-component polyurethane foam adhesive engineered for speed and simplicity. Polyset CR-20 is ideal for adhering a variety of insulation boards, cover boards, as well as fleeceback membranes to various substrates in both new and re-roof applications. It is FM approved for use with most roofing system manufacturers' products. This product comes in self-contained, ready to dispense kits consisting of A and B cylinders, a Handi-Gun® dispensing unity and Colorwise® Temperature Warning Nozzles. These portable kits make it easy to access hard-to-reach areas, plus provide faster application on open roofs. Polyset CR-20 kits feature simple-to-use pressurized cylinders versus large mechanical proportioners, cumbersome caulk-type dispensers or carts. No extra power source is required.



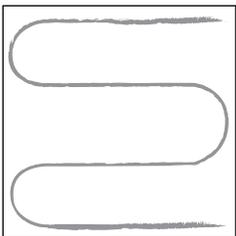
ITEM	DESCRIPTION	YIELDS*
62496580302	CR-20 FLEECEBACK ADHESIVE KIT	20 SQUARES
62000180302	CR-20 FLEECEBACK ADHESIVE KIT	6 SQUARES

*See product specific TDS for additional information.

RELATED PRODUCTS

Handi-Foam® E84 low-pressure spray polurethane foam (SPF) is perfect for night seal applications. See product specific TDS for additional information.

SERPENTINE BEAD PATTERN



Displays proper serpentine bead method

To achieve optimum results, dispense product in a continuous "S" shaped ribbon to represent a serpentine bead pattern.



BOARD-MAX TECHNICAL DATA*

APPROVALS	Factory Mutual (FM) UL File R39032
OPEN TIME	1 - 5 minutes**
SET-UP TIME	1 - 5 minutes**
FULLY CURED TIME	24 hours
SHELF LIFE	12 months

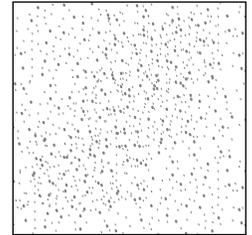
*See product specific TDS for additional information.

**Times may be affected by temperature and weather conditions.



SPATTER PATTERN METHOD

To achieve optimum results, spray pattern should be similar to the action required when hand watering a flower bed. This allows us to create a fully adhered membrane attachment.



Displays proper spatter method

CR-20 TECHNICAL DATA*

APPROVALS	Factory Mutual (FM) UL File R20817 Florida Product Approval FL1365-R6 Miami Dade NOA
OPEN TIME	1 - 10 minutes**
SET-UP TIME	10 - 20 minutes**
FULLY CURED TIME	24 hours
SHELF LIFE	12 months

*See product specific TDS for additional information.

**Times may be affected by temperature and weather conditions.



POLYSET® BOARD-MAX™

INSULATION & COVERBOARD ROOFING ADHESIVE

Polyset Board-Max is a low-rise, two-component polyurethane foam adhesive specifically engineered to secure insulation and cover boards to various roof decks, cover boards and substrates. The all-inclusive kits provide a portable and disposable solution for the contractor, eliminating the need for costly accessories, carts or dispensing equipment and maintenance. This high-yield kit is specifically designed to be applied in a "serpentine" ribbon placed at a maximum of 12" (30.48 cm) OC.

ITEM	DESCRIPTION	YIELDS*
62496580322	BOARD-MAX ADHESIVE KIT	30 SQUARES
62000280322	BOARD-MAX ADHESIVE KIT	9 SQUARES

*See product specific TDS for additional information.

RELATED PRODUCTS

Handi-Foam® High Density low-pressure spray polyurethane foam (SPF) is perfect for repairing existing polyurethane roofs. See product specific TDS for additional information.



EXCLUSIVE TECHNOLOGIES



As part of our unwavering dedication to product innovation, we are proud to deliver exclusive technologies only offered by ICP Adhesives & Sealants, Inc.



FOAMPRO® AUTO CALIBRATOR

The FoamPro® Auto Calibrator is a low-pressure polyurethane foam adhesive dispensing breakthrough.

- Provides precise chemical ratio.
- No manual calibration needed.
- Helps to maximize product yield.
- For use with all of our refillable systems.
- Universal mounting points.
- Provides incredible ease of use and unprecedented productivity.



FOAMPRO® GUN

The FoamPro RTF1000EZ is the latest addition to the long line of rugged and reliable dispensers from ICP Adhesives & Sealants. Over time, our applicators have been refined to provide easy to use, easy to maintain and extremely cost effective tools for our contractors.

- Engineered for quick setup and shutdown.
- Provides consistency from jobsite to jobsite.
- Rugged all metal design.
- Trouble-free service.



INNOVATIO



ColorWise[®]

TEMPERATURE WARNING NOZZLES

Changes from clear to blue, indicating that the chemical has reached a cold temperature, below 60°F (16°C), and the adhesive should not be dispensed.

- Nozzle will change from blue to clear when chemical temperature is back in the acceptable range.
- Stop spraying and warm the chemical to the recommended temperature. See TDS for product specific temperature recommendations.
- Helps keep adhesive on ratio and maximizes yield.
- Available for use with Handi-Gun[®] Dispensing Units



If proper chemical temperature is sprayed through a blue, cold nozzle, the mixing chamber of the nozzle will change back to clear, indicating that it is OK to spray. Notice that the top of the nozzle may remain blue.



The mixing chamber of the ColorWise nozzle will change from clear to blue when cold chemical is sprayed through it. Stop spraying and ensure proper chemical temperature to avoid off-ratio foam.



HANDI-GUN[®]

THE ULTIMATE WAY TO SPRAY

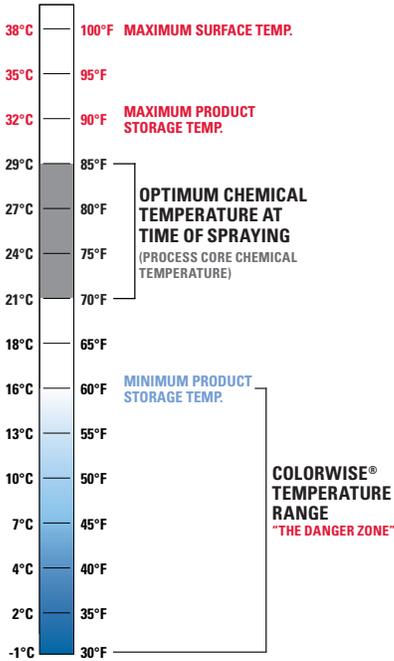
The patented Handi-Gun dispensing unit is available with our Polyset[®] Roofing Adhesives. The Handi-Gun offers easy nozzle attachments, responsive triggers for accurate metering and clear hoses to provide easy viewing of chemical flow.

- Snap On/Snap Off Nozzles: Convenient ColorWise[®] Temperature Warning Nozzles attachments with a snap-on, snap-off connection.
- Responsive Trigger: Allows for accurate metering, precise application, labor savings and reduced waste.
- Enhanced Visibility: Clear hoses attached to the Handi-Gun provide easy viewing of the chemical flow.

NS THAT IMPROVE.®

IMPORTANCE OF TEMPERATURE

Temperature is critical for all low pressure polyurethane adhesives. Chemical that is too hot or too cold can heavily impact the application and outcome of an adhesive job, causing poor adhesive quality, off-ratio adhesive and yield loss problems. Storage and substrate temperatures can also affect the ratio and properties of the product being sprayed. ICP has developed a variety of solutions to help ensure the highest quality adhesive, while maximizing yield.



ColorWise®
TEMPERATURE WARNING NOZZLES



ColorWise® Temperature Warning Nozzles change from clear to blue, indicating that the chemical has reached a cold temperature [below 60°F (16°C)] and the adhesive should not be dispensed. Stop spraying to avoid off-ratio adhesive and yield loss, and properly condition the chemical before spraying again.



Designed for use with:
HANDI-GUN®
THE ULTIMATE WAY TO SPRAY

"WHEN THE NOZZLE
URNS BLUE
STOP YOUR CREW."

See TDS for product specific temperature recommendations.

PERSONAL PROTECTIVE EQUIPMENT

Working smart is about choosing the best solution for the job and then executing the project safely. When using any low pressure polyurethane foam adhesive, we recommend following a safety program, including wearing proper personal protective (PPE) equipment.



F65251 – CONTRACTOR SAFETY KIT

Personal Protective Equipment (PPE) required:



For more information, see the Product Stewardship Guidelines (A14009).



POLYSET® PRODUCT & ACCESSORY ORDERING GUIDE

STEEP SLOPE PRODUCTS	
POLYSET AH-160 TWO-COMPONENT ADHESIVE	
PART #	DESCRIPTION
62481281509	AH-160 17 GAL. REFILL PART A
62484681507	AH-160 17 GAL. REFILL PART B
62481283000	AH-160 60 GAL. REFILL PART A
62484683008	AH-160 60 GAL. REFILL PART B
62481389104	AH-160 PROPACK 30 KIT
62481389302	AH-160 PROPACK 100 KIT
POLYSET RTA-1 ONE-COMPONENT ADHESIVE	
PART #	DESCRIPTION
62480749308	RTA-1 26 OZ (12 PACK)
62480880202	RTA-1 23 LB CYLINDER

STEEP SLOPE ACCESSORIES	
PERSONAL PROTECTIVE EQUIPMENT (PPE)	
PART #	DESCRIPTION
F65251	CONTRACTOR SAFETY KIT (INCLUDES: SAFETY GLASSES, NITRILE GLOVES (2 PAIRS), NIOSH APPROVED RESPIRATOR (ORGANIC VAPOR CARTRIDGES, DUST/MIST PREFILTERS AND 10 HYGIENIC WIPES), TYVEK® APRON & ARM GAUNTLETS)
CLEANERS	
PART #	DESCRIPTION
62484448303	POLYSOLV (12 PACK)
ACCESSORIES	
PART #	DESCRIPTION
62496580302	FOAMPRO® AUTO CALIBRATOR
62988499307	25' APPLICATOR & HOSE
62988510046	RTF1000EZ 100 FOAM DISPENSER W/ 100' (30 M) HOSE
62988510053	RTF1000EZ 150 FOAM DISPENSER W/ 150' (46 M) HOSE
62988510061	RTF1000EZ 200 FOAM DISPENSER W/ 200' (60 M) HOSE
62988511937	PP1/GH 7FT APPLIC/HOSE REPLACE FOR RTA-1
62988511945	PP101R APPL/HOSE ASSEMB RESTRICT 9 1/2 FT
62988511978	RTA-1 NOZZLES PSI/NP, 6 PER CASE
62484075304	A1008 POLYURETHANE GLYCOL CLEANER
62484175302	AUTO CALIBRATOR LUBRICANT IN109 1 GAL/CS
F66125	COLORWISE® LONG CONE NOZZLES (25 PACK)
F66172	COLORWISE® LONG CONE NOZZLE (8 PACK)

LOW SLOPE PRODUCTS	
POLYSET CR-20	
PART #	DESCRIPTION
62496580302	CR-20 FLEECEBACK ADHESIVE KIT (20 SQUARE)
62496880302	CR-20 FLEECEBACK ADHESIVE KIT (6 SQUARE)
POLYSET BOARD-MAX	
PART #	DESCRIPTION
62496580322	BOARD-MAX ADHESIVE KIT (30 SQUARE)
62496880322	BOARD-MAX ADHESIVE KIT (9 SQUARE)

LOW SLOPE ACCESSORIES	
PERSONAL PROTECTIVE EQUIPMENT (PPE)	
PART #	DESCRIPTION
F65251	CONTRACTOR SAFETY KIT (INCLUDES: SAFETY GLASSES, NITRILE GLOVES (2 PAIRS), NIOSH APPROVED RESPIRATOR (ORGANIC VAPOR CARTRIDGES, DUST/MIST PREFILTERS AND 10 HYGIENIC WIPES), TYVEK® APRON & ARM GAUNTLETS)
CLEANERS	
PART #	DESCRIPTION
62484448303	POLYSOLV (12 PACK)
ACCESSORIES	
PART #	DESCRIPTION
62988499307	25' APPLICATOR & HOSE
F65325	CR-20 MIXING NOZZLE EXTENDER (8 PACK)
F66125	COLORWISE LONG CONE NOZZLES (25 PACK)
F66172	COLORWISE LONG CONE NOZZLE (8 PACK)



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Polysel Roofing Adhesives are composed of diisocyanate, hydrofluorocarbon blowing agent, and a polyol blend. Read the SDS and instructions carefully before use (www.icpadhesives.com). Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Recommend using in a well ventilated area with certified respiratory protection or with a powered air purifying respirator (PAPR). The polyurethane foam adhesive produced from these ingredients will support combustion and may present a fire hazard if exposed to a fire or excessive heat above 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, Product Stewardship Guidelines and operating instructions for guidance on the safe and proper application of the product (www.icpadhesives.com). For professional or industrial use only.

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