



2-Component Roof Tile Adhesive Polyset® AH-160 ProPack 30/100

Additional product information available at www.icpadhesives.com

Technical Data

March 2016

Product Description 2-Component Roof Tile Adhesive Polyset® AH-160 is a two component polyurethane froth adhesive. 2-Component Roof Tile Adhesive Polyset® AH-160 is specifically designed to adhere concrete and clay roof tile onto compatible roofing underlayment surfaces. The “A” and “B” components are dispensed utilizing ICP Adhesives’ two-component disposable foam applicator.

Basic Use 2-Component Roof Tile Adhesive Polyset® AH-160 is specifically designed to adhere a variety of concrete and clay roof tiles to various compatible substrates in both new and reroof applications. The adhesive is applied in a previously determined paddy placement location directly to a compatible underlayment surface. The roof tile is placed onto the adhesive paddy. A chemical cure takes place several minutes after application, depending on temperature and weather conditions.

Listing and Approvals 2-Component Roof Tile Adhesive Polyset® AH-160 is approved by the following agencies:

- **Miami-Dade County (NOA)**
- **Florida Building Code (FBC)**

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product:	A - Component	B - Component
Base:	Polymeric Isocyanate	Polyol Amines
Blowing Agent:	134A	134A
Net Weight lbs.(Propack 30 / 100):	14.0 / 45.3	12.5 / 40.0

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Typical Physical Properties (continued)

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Properties	Mixed Components
Open Time (2-paddy, medium or large paddy):	1 - 2 minutes ¹
Work Life in Mixing Nozzle:	1 minute ¹
Set-up Time:	10 - 20 minutes ¹
Time to Full Cure:	24 - 48 hours
Medium Paddy Yield ² (Propack 30 / Propack 100):	400 / 1295 (30 gram medium paddy)

¹ Times may be affected by temperature and weather conditions.

² The paddy size must be adjusted for various tile profiles to achieve proper contact area and will vary depending on the tile design.

Compatible Underlayments and Cap Sheets

- 2-Component Roof Tile Adhesive Polyset® AH-160 will adhere to any granulated mineral surfaced roll roofing meeting ASTM D 6380. 2-Component Roof Tile Adhesive Polyset® AH-160 will also adhere to modified-bitumen and select polymer-based products. These types of products are usually more critical when determining uplift resistance values, due to the effect of the polymer modifiers contributing to the softening of the top surface when exposed to elevated temperatures.
- Please verify compatibility of underlayment and/or cap sheet surface with product manufacturer, ICP Adhesives Approved Underlayment List on www.icpadhesives.com, or applicable product approval in effect with authority having jurisdiction for the product location.

Compatible Concrete and Clay Roof Tile

- Please verify compatibility of roof covering product with tile manufacturer or applicable product approval in effect with the authority having jurisdiction for the project location.

Application and Product Features

- Little to no deck penetrations caused by mechanical fasteners
- No fastener back out
- Very rapid application
- 20 year adhesive set system warranty available
- Achieves maximum wind uplift resistance (HVHZ)
- Low slope and steep slope applications
- Non-nailable deck options
- No electrical power source required
- Class A rated, ASTM E-108
- Increased thermal performance above deck R4.3

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Limitations

- 2-Component Roof Tile Adhesive Polyset® AH-160 is not recommended for products surfaced with polypropylene or silicone-based surfaces.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is not recommended for tile surfaces that contain silicone or other surface/dipping coating products used for the prevention of mold and mildew growth.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is not recommended for application when ambient or substrate temperatures are below 45°F.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is not recommended for use during inclement weather.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is not recommended for use on wet surfaces.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is not recommended for use on dirty or grease laden surfaces.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is not recommended for use after the expiration date.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is to be applied over an underlayment/cap sheet installed in compliance with the underlayment fastening tables published, the FRSA/TRI Concrete and Clay Roof Tile Installation Manual, or Roofing Application Standard (RAS) 120 depending on authority having jurisdiction for your location.
- 2-Component Roof Tile Adhesive Polyset® AH-160 is to be installed by a factory trained “Qualified Applicator” approved and licensed by ICP Adhesives.
- 2-Component Roof Tile Adhesive Polyset® AH-160 test paddies must be dispensed at least every other course of tile and the quality of adhesive verified.
- 2-Component Roof Tile Adhesive Polyset® AH-160 shall be placed in accordance with our “Paddy Placement Details” as referenced in the installation instructions.
- Underlayment, tile, hip and ridge support member surfaces must be dry, clean, and free from any dust, debris, oil, or any foreign matter that will inhibit the bond of the adhesive.
- Adhere tile in freshly applied adhesive. The tile must be set prior to adhesive “skinning over” usually 1-2 minutes depending on ambient temperature.
- 2-Component Roof Tile Adhesive Polyset® AH-160 shall not be exposed permanently to ultra-violet rays (sunlight). Any exposed adhesive is to be cut away and covered with mortar or coated with a quality acrylic paint or paint designed for the application to polyurethane foam.
- 2-Component Roof Tile Adhesive Polyset® AH-160 shall be applied with ICP Adhesives dispensing equipment only.

***Note: ICP Adhesives recommends verifying the calibration by shooting a test paddy at least every other course of tile.**

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Additional Attachment Requirements

Additional fastening may be necessary on steep pitches. For additional attachment requirement, please reference the 2-Component Roof Tile Adhesive Polyset® AH-160 Installation Instructions on www.icpadhesives.com.

Application Equipment

2-Component Roof Tile Adhesive Polyset® AH-160	UPC	SKU
2-Component Roof Tile Adhesive Polyset® AH-160 ProPack 100 Kit	816316020201	62-4813-8930-2
2-Component Roof Tile Adhesive Polyset® AH-160 ProPack 30 Kit	816316020195	62-4813-8910-4
2-Component Roof Tile Adhesive Polyset® AH-160 Mix Nozzles, includes 8 mix nozzles w/ wrench	816316020751	62-9885-1017-8
2-Component Roof Tile Adhesive Polyset® AH-160 Applicator and 25' Hose Assembly	816316022502	62-9885-1195-2
ICP Polyurethane Solvent Cleaner PS1, 16 fl. oz. Aerosol Can, net wt 11.5 fl. oz., 12 cans per case	816316020430	62-4844-4830-3

Storage and Handling

The “A” and “B” containers should be stored between 45°F and 95°F. The shelf life, at these temperatures, is 12 months from the date of manufacture. The product temperature prior to application should be between 70°F and 90°F. The minimum ambient temperature is 45°F and surface temperature should be 55°F and rising.

Cylinder Disposal

Disposable cylinders should be disposed of in accordance with local, state and federal regulations. Consult SDS or ICP Adhesives' technical bulletin for more information.

First Aid

Inhalation: Remove person to fresh air. Get immediate medical attention.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that ICP Adhesives believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond ICP Adhesives and Sealants, Inc.'s (ICP) control and uniquely within user's knowledge and control can affect the use and performance of an ICP product in a particular application. User is solely responsible for evaluating the ICP product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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