

2-Part Roofing Adhesive Data Sheet

Updated: 1/17



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North America's Largest Roofing Manufacturer!™*



2-PART ROOFING ADHESIVE (1 of 2)

Description

GAF 2-Part Roofing Adhesive (G2PRA) is a two-component elastomeric polyurethane froth adhesive. It's ideal for adhering most insulation boards as well as fleece-back membranes. GAF 2-Part Roofing Adhesive is designed to provide outstanding adhesive properties as well as controlled gap fill without lifting the insulation boards. The "A" and "B" components are dispensed from two prepressurized disposable cylinders utilizing GAF's two-component disposable foam applicator.

Basic Use

Insulation

GAF 2-Part Roofing Adhesive is specifically designed to adhere a variety of insulation board stock to various substrates in both new and re-cover applications. It can also be used to adhere insulation board to insulation board where multiple layers are required. The adhesive is applied in a bead form directly to an approved substrate.

Fleece-Back Membrane

For fleece-back membranes, the adhesive is applied in a spatter pattern for a fully adhered application with no telegraphing adhesive lines. The insulation board or membrane is placed onto the adhesive. A chemical cure takes place several minutes after application, depending on temperature and weather conditions. In addition, it offers:

Advantages

- Cost effectiveness and increased productivity
- Excellent wind uplift performance
- Up to 20 squares of coverage
- Fast installation
- Portability and ease of use
- No expensive equipment or maintenance
- No external power required

Compatible Roof Decks and Substrates

- Structural concrete
- Asphalt-primed concrete
- Precast 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, or torch-applied)
- Gypsum

Compatible Roof Insulations And Cover Boards

- Polyisocyanurate (flat or tapered)
- Extruded or expanded polystyrene
- High-density wood fiber
- DensDeck® and other gypsum boards
- Securock® roof board

Codes and Compliance

- Factory Mutual (FM)
- Underwriters Laboratories (UL)
- Florida Building Code (FBC)
- Miami-Dade County Product Control Approved

Limitations

- GAF 2-Part Roofing Adhesive (G2PRA) is not recommended for use with insulating board stock larger than 4' x 4' (1.21 x 1.21 m)
- GAF 2-Part Roofing Adhesive (G2PRA) is not recommended for application when ambient or substrate temperature is below 40°F (4.4°C)
- GAF 2-Part Roofing Adhesive (G2PRA) is not recommended for use during inclement weather
- GAF 2-Part Roofing Adhesive (G2PRA) is not recommended for use on wet surfaces
- GAF 2-Part Roofing Adhesive (G2PRA) is not recommended for use on any roof deck that shows signs of deterioration or loss of structural integrity
- GAF 2-Part Roofing Adhesive (G2PRA) is not recommended for use on excessively dirty or grease-laden surfaces
- GAF 2-Part Roofing Adhesive (G2PRA) is not recommended for use after the expiration date
- GAF 2-Part Roofing Adhesive (cold weather formula) must not be used with fleece-back TPO

Storage and Handling

The "A" and "B" containers should be stored between 45°F (7.2°C) and 95°F (35°C). The shelf life, at these temperatures, is 18 months from the date of production.

The product temperature prior to application should be between 70°F (21.1°C) and 90°F (32.2°C). The minimum ambient and surface temperature should be 40°F (4.4°C) and rising.

(Continued on page 2)



Florida Building Code



2-PART ROOFING ADHESIVE (2 of 2)

Product Installation

If the ColorWise® nozzle turns blue when dispensing chemicals through it, it is indicating that the chemical is not in the acceptable range of 70° F – 85° F (21°C – 29°C). You **must not** use this product until the chemical reaches the proper temperature and the nozzle becomes clear, which is an indication that you can begin application.

The GAF 2-Part Roofing Adhesive (G2PRA) is applied in rows placed a maximum of 12" (305 mm) o.c.

Insulation boards are to be placed immediately on the wet adhesive but not walked into place or compressed into the adhesive until the GAF 2-Part Roofing Adhesive (G2PRA) has begun to thicken and started to develop its initial bond.

The time involved in this process is contingent on the ambient as well as deck-surface temperature. The chart below illustrates the approximate time required prior to walking-in or adding ballast to the boards.

After the adhesive has attained its initial bond strength, the boards can be "walked-

in" and will be compressed to the deck or substrate exhibiting minimal slippage or movement. The boards should be exposed to minimal traffic for at least 10–20 minutes (depending on temperature) after they have been "walked-in-place" to avoid breaking the freshly formed bond (see chart below).

NOTE: Membranes can be applied once the adhesive has achieved sufficient bond strength to the immediate substrate to which it is adhered. It is recommended that the contractor inspect the installed insulation for proper adhesion and readhere any boards and/or corners that are not adequately attached.

NOTE: Boards that will not lie flat due to cupping, warping or crowning, or surface irregularities of the substrate should have weights placed on the boards until the GAF 2-Part Roofing Adhesive (G2PRA) has achieved adequate adhesion to hold the boards in place.

For Application Questions

Contact GAF Technical Services at 1-800-766-3411 or visit gaf.com.

TIME BEFORE WALKING-IN		
Ambient/Deck Temperature	Standard Formula (Available: April–October)	Cold Weather Formula* (Available: October–March)
40°–60°F (4.4°–15.6°C)	6–10 minutes	3–6 minutes
60°–80°F (15.6°–26.7°C)	3–6 minutes	1–3 minutes
80°–100°F (26.7°–37.8°C)	1–3 minutes	Immediately

* NOTE: Fleece-back membrane installation requires standard formula (NOT cold weather formula).

PRODUCT	A – COMPONENT	B – COMPONENT
Base	Polymeric Isocyanate	Polyol Amines
Blowing Agent	134a	134a
Net Weight lb.	40 (18.14 kg)	35 (15.88 kg)
Volatile Organic Compounds (VOC): When used as intended with both parts	67.5g/l	

PROPERTIES	B – COMPONENT
Open Time (2.5" [64 mm] bead)	1–10 Minutes ¹
Work Life In Mixing Nozzle	1 Minute ¹
Set-up Time	10–20 Minutes ¹
Time To Full Cure	24 Hours
Coverage (2.5" [64 mm] bead, 12" [305 mm] On Center Rows) ²	1,800–2,400 ft ² (167.22–185.8 m ²)

¹ Times may be affected by temperature and weather conditions

² The application rate must be increased for rougher surfaces and will vary depending on the roughness

ColorWise® Temperature Warning Nozzles is a registered trademark of ICP Adhesives & Sealants, Inc.