

Product Description

The Kingspan Low-Rise Foam Adhesive is a two-part, polyurethane adhesive applied in bead pattern for the attachment of Kingspan ISO GF and ISO CG insulations, Kingspan ISO HD CG and DensDeck® cover boards, and Kingspan Vapor Barrier SAR membrane to approved substrates.



Manufactured in the U.S.A.

The Kingspan Low-Rise Foam Adhesive is manufactured in the U.S.A. with globally sourced materials.



Features & Benefits

- **Fast insulation and cover board installation** typically 4-8 minutes before setting the next board.
- **Low VOC formulation** approved for use in jurisdictions that limit adhesive VOC content to 250 g/L or less.
- **Great Coverage Rates:** up to 250 sq. ft. per Gallon for 12-in. o.c. (varies by substrate and project requirements).
- **Industry Standard Size Options:**
 - The 5-Gallon Bag-in-Box, 15-Gallon Drum, and 50-Gallon Drum options require mixing/dispensing equipment to properly mix the Part 1 and 2 components at a 1:1 ratio and apply it to the substrate.
 - The 1500 mL Cartridge option requires an applicator gun and is ideal for smaller jobs where rooftop maneuverability is critical, or when mixing/dispensing equipment is unavailable.
- **Broad Range of Approved Substrates** for attachment including steel (22-gauge or thicker), plywood, gypsum, structural concrete, cementitious wood plank, lightweight insulating concrete, smooth surface Mod Bit and BUR, base sheets as well as Kingspan ISO GF and ISO CG insulations, Kingspan ISO HD CG and DensDeck® cover boards, and Kingspan Vapor Barrier SAR membrane.
- **FM approved assemblies** for insulation attachment.
- **Year-Round Usage:** Our standard formulation can be applied in ambient temperatures of 40°F and rising. For colder conditions down to ambient temperatures of 25°F and rising, please use our Winter formulations referenced on our Technical Data Sheet.
- **Odor-Free Formulation** preferred by commercial roofing projects on schools, hospitals, and other occupied buildings.
- **Non-Penetrating** attachment system.

Codes & Approvals



Safety Precautions

- Be sure to use proper equipment and assistance when moving, lifting, handling, or transporting to avoid personal injury as well as to avoid damaging the material.
- Prior to Setup: Always dispense Kingspan Low-Rise Foam Adhesive in a well-ventilated area while wearing appropriate personal protective equipment (PPE). Reference the Kingspan Safety Data Sheet for additional information.

Set Up

- Kingspan's standard low-rise foam adhesive formulation is designed for use when both the adhesive and substrate are at least 40°F. Kingspan has a winter low-rise foam adhesive formulation that should be used when roofing in temperatures down to 25°F. Always determine the proper open/mate time based on jobsite conditions before adhering materials.
- This adhesive should be installed with 4-ft. x 4-ft. (maximum) insulation boards and only install as much insulation as can be made watertight on that day.
- A mix, meter, and dispensing equipment system (ex. PaceCart® or similar low pressure dispensing system) must be used to install the Kingspan Low-Rise Foam Adhesive.
- In this example, we will reference the PaceCart. If using an alternative dispensing system, please follow that manufacturer's operating instructions.

Application

- Ensure substrates are clean, dry, and free of sharp edges, debris, oil, grease, and other contaminants.
- Before applying to the substrate, dispense a small amount of adhesive into a waste container to ensure proper 1:1 mixing of Part 1 and Part 2, which will appear as a smooth, continuous bead.
- To mix and dispense Kingspan Low-Rise Foam

Adhesive using a PaceCart™, begin by correctly mounting Parts 1 and 2 of the adhesives onto the PaceCart™ according to the manufacturer's guidelines. To initiate application, open both valves on the PaceCart™ spray gun, allowing adhesive to flow and mix through the static mixing tip. The adhesive must be thoroughly blended in a 1:1 ratio—there will be no visible marbling if mixed correctly.

- Apply the adhesive to the substrate in continuous beads, spaced no more than 12-inches apart, or as specified to meet wind uplift requirements. Allow the adhesive to expand $\frac{3}{4}$ " to 1", then position the 4-ft. x 4-ft. (maximum) insulation board onto the adhesive before a skim coat forms, ensuring proper contact during the critical bonding phase.
- Immediately walk on each insulation board after placement to promote full contact between the board and substrate while the adhesive cures. Maintain consistent pressure by placing heavy objects (e.g., pails of adhesive) on the boards for typically 4–8 minutes to ensure proper adhesion. Mating time may vary based on weather conditions.
- When storing previously opened adhesive containers, close the valves on the spray gun and switch off the PaceCart™ pump. Remove and discard the used static mixing tip. To relieve pressure in the lines, open and close the gun valves briefly. Leave both Part 1 and Part 2 adhesive containers connected to the PaceCart™ for storage.
- Further Guidance: Always refer to the Kingspan Application Guide for detailed application procedures and best practices.

Shelf Life & Proper Storage

- Store the Kingspan Low-Rise Foam Adhesive indoors and away from direct exposure to sunlight.
- From the date of manufacture, a shelf life of 18 months can be expected when stored in its original packaging and in a temperature-controlled environment between 55°F and 85°F. Protect from freezing at all times.
- Reference the Safety Data Sheet for additional information.

PaceCart™ is a registered trademark of OMG, Inc. To install the 15-Gallon drum size, the PaceCart™ must be equipped with a 15-gallon drum conversion kit. To install the 50-Gallon drum sizes, a high pressure proportioning unit must be used. Examples include Graco E-10 Reactor, Graco Predator™ Proportioner, AST Adhesive System Technology PCH GMP-075 or GMP-500.

Typical Properties – Standard Formulation (40°F and rising)

| Size | Part | Ordering SKU | Material | Color | Coverage Rates by Substrate for 12-in. bead o.c. | | | VOC Content | Shelf Life |
|---------------------|--------|--------------|----------|-------|--|------------------------------|------------------------------|-------------|------------|
| | | | | | Insulation, Wood or Concrete | Smooth BUR or Mod Bit | Metal or Gypsum | | |
| 5-Gallon Bag-in-Box | Part 1 | 600000001043 | MDI | Brown | Up to 250 sq. ft. per Gallon | Up to 170 sq. ft. per Gallon | Up to 120 sq. ft. per Gallon | 11 g/L | 18 months |
| | Part 2 | 600000001364 | Polyol | Red | | | | | |
| 15-Gallon Drum | Part 1 | 600000001044 | MDI | Brown | | | | | |
| | Part 2 | 600000001363 | Polyol | Red | | | | | |
| 50-Gallon Drum | Part 1 | 600000001045 | MDI | Brown | | | | | |
| | Part 2 | 600000001365 | Polyol | Red | | | | | |
| 1500 mL Cartridge | Part 1 | 600000001042 | MDI | Brown | | | | | |
| | Part 2 | | Polyol | Red | | | | | |

Typical Properties – Winter Formulation (25°F and rising)

| | | | | | | | | | |
|----------------------------|--------|--------------|--------|-------|------------------------------|------------------------------|------------------------------|--------|-----------|
| 5-Gallon Bag-in-Box Winter | Part 1 | 600000001448 | MDI | Brown | Up to 250 sq. ft. per Gallon | Up to 170 sq. ft. per Gallon | Up to 120 sq. ft. per Gallon | 11 g/L | 18 months |
| | Part 2 | 600000001449 | Polyol | Red | | | | | |
| 15-Gallon Drum Winter | Part 1 | 600000001450 | MDI | Brown | | | | | |
| | Part 2 | 600000001451 | Polyol | Red | | | | | |
| 50-Gallon Drum Winter | Part 1 | 600000001452 | MDI | Brown | | | | | |
| | Part 2 | 600000001453 | Polyol | Red | | | | | |
| 1500 mL Cartridge Winter | Part 1 | 600000001486 | MDI | Brown | | | | | |
| | Part 2 | | Polyol | Red | | | | | |

Packaging Information

| Size | Part | Weight |
|---------------------|--------|---------------------|
| 5-Gallon Bag-in-Box | Part 1 | 53 lbs. (24.1 kg) |
| | Part 2 | 45 lbs. (20.4 kg) |
| 15-Gallon Drum | Part 1 | 160 lbs. (72.6 kg) |
| | Part 2 | 135 lbs. (61.2 kg) |
| 50-Gallon Drum | Part 1 | 550 lbs. (249.5 kg) |
| | Part 2 | 460 lbs. (208.7 kg) |
| 1500 mL Cartridge | Part 1 | 20 lbs. (9.1 kg) |
| | Part 2 | |

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