



## Product Description:

Rapid Set ECO<sub>2</sub> Spray Foam is a two component, low rise, solvent-free, low rise, polyurethane foam adhesive designed to adhere IB approved insulation, cover board and thermal barrier boards to a variety of roof substrates in both new and reroof applications. Can be applied in spatter or ribbon methods.

## Features:

- Ideal for adhering fleece back membrane in spatter application to an approved surface
- Quick & easy application with adhesive setting in minutes
- Does not contain HFC-134a or other high Global Warming Potential (GWP) propellants. As a Planet Passionate Partner, we use naturally found atmospheric gases as blowing agents, eliminating the need for chemical alternatives, thus reducing its environmental impact.
- VOC compliant <50 g/l
- Solvent free formulation
- Approved for use in all US and Canadian markets that regulate ozone depleting substances.

## Packaging:

Packaged in dual pressurized canisters and dispensed utilizing a disposable adhesive applicator assembly and 25-foot hoses.

Part 1 Canister 49 lbs. / 36 per pallet

Part 2 Canister 43 lbs. / 36 per pallet

Note: Part 1 and Part 2 canisters are packaged in individually labeled boxes. The part 1 box includes one applicator, hoses, four dual-purpose static mixers, wrench, petroleum jelly and a set of gloves.

## Colors:

Part 1 – Amber | Part 2 - Clear

## Use:

Rapid Set ECO<sub>2</sub> Spray Foam is designed for use as an adhesive for bonding approved roof insulations to a building's structural roof deck, vapor retarders, other insulation board stock, and smooth or granulated asphaltic roof surfaces. Rapid Set ECO<sub>2</sub> Spray Foam is also designed for fleece back membrane attachment in ribbon or spatter applications. It is dispensed in 1" – 1.5" (2.5–3.8 cm) wide beads or in a spatter application using our proprietary dual-purpose static mixer. Our unique design allows both ribbon and spatter applications from a single static mixer. Rapid Set ECO<sub>2</sub> Spray Foam expands and rises to fill minor surface irregularities.

## Approvals:



Refer to individual assembly approvals for additional information and requirements.

Image to Come

Product details stated are nominal as manufactured, and the results of tests and/or calculations and therefore are non-binding and do not represent a guarantee or warranted characteristics. User and/or designer are responsible for confirming suitable performance for specific application and conforming with all applicable laws and regulations.

## Physical Properties:

| Property                  | Value                         |
|---------------------------|-------------------------------|
| VOC content               | <50 g/l                       |
| Skin Time (70°F / 50% RH) | 5-8 Minutes                   |
| Shelf Life                | 12 months with proper storage |

## Approximate Coverage\*:

| Ribbon Rate of Application   | Ribbon Coverage*            |
|------------------------------|-----------------------------|
| 1.0" – 1.5" bead, @ 12" o.c. | Up to 35 squares per kit**  |
| Spatter Rate of Application  | Spatter Coverage*           |
| 1/4" to 1/2" nom. thickness  | Up to 24 squares per kit*** |

\*Note conditions – i.e. Standard Temperature/Humidity Conditions (70°F / 50% RH)

\*\*Coverage rate estimates indicate total square feet of insulation attachment per kit. Rates are based on an application pattern of four (4) ribbons 1-1.5" (2.5-3.8 cm) wide, spaced at 12" (30 cm) o.c. per 4' x 4' (1.2m x 1.2m) insulation board. Coverage rates may vary based on ambient temperature, substrate condition and application methods used.

\*\*\*Coverage rate estimates indicate total square feet of fleece back membrane attachment per kit. Rates are based on a spatter application pattern at the approximate uniform rate of 1/4" to 1/2" thickness. Coverage rates may vary based on ambient temperature, substrate condition and application methods used.

## Acceptable Substrates<sup>1</sup>:

Only the following substrates are acceptable for use to receive the Rapid Set ECO<sub>2</sub> Spray Foam:

- Brick/Masonry/CMU
- Cementitious Wood Fiber
- Concrete
- Dimensional Wood Lumber
- Gypsum Decks
- Lightweight Insulating Concrete
- OSB - Minimum 7/16"
- Plywood - Minimum 1/2"
- Steel - Minimum 22-gauge
- IB EnergyBoard II and III, other IB Approved ISO
- IB Approved EPS
- IB Approved XPS



- Most gypsum coverboards rated for adhered applications.
- Smooth or granulated asphaltic and modified bitumen roofs

<sup>1</sup>Substrates and all surfaces must be clean, dry, and free of dirt, dust, debris, oils, loose and/or embedded gravel. IB Roof Systems recommends insulation adhesion pull tests in accordance with ANSI/SPRI IA-1 prior to beginning work to confirm acceptable uplift resistance.

## Temperature Guidelines/Storage & Handling:

Store in a dry area. **PROTECT FROM FREEZING!**

**Optimum chemical storage temperature:** 60-90°F (16-32°C).

Bring temperature of material to approximately 70°F (21°C) for approximately 24 hours before use.

Do not store in direct sunlight or above 95°F (35°C).

Store canisters valve side up.

Rapid Set ECO<sub>2</sub> Spray Foam has a shelf life of 12 months when stored properly.

## Application:

Refer to IB Specifications and Construction Details for additional installation instructions. All surfaces should be dry, free of dirt, dust, debris, oils, loose gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is not sound or uneven.

- Apply Rapid Set ECO<sub>2</sub> Spray Foam using appropriate dispensing equipment, directly to the substrate, using the roof membrane manufacturer's recommended pattern to achieve proper coverage rates.
- Do not allow the adhesive to skin over. Eliminate uneven surfaces to ensure positive contact between the insulation board and substrate.
- Read all instructions, Product Guidelines, and SDS prior to use of any product.

## Safety:

This product is flammable. Adhesive contains materials which could be harmful if mishandled. This adhesive is in a pressurized container and should be used with caution. Vapor from applied adhesive is heavier than air and may travel along the ground or through ventilation and may be ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources. Residual vapors may ignite even though adhesive is not being actively applied. Keep away from open flame.

Use in well-ventilated areas. Avoid inhalation of spray mist or vapors.

Appropriate PPE, gloves and goggles must be worn when using this product.

Never aim the spray gun at people. Read label and safety data sheet prior to use for complete safety, precaution and warning information. Read all instructions, and SDS (Section 8) prior to use of any product.

## Limitations:

- Do not use when ambient, substrate or product temperatures are outside specified temperature ranges.
- Do not use during inclement weather, on wet surfaces or on any roof deck showing signs of deterioration or loss of structural integrity.
- Do not use after the expiration date.
- Approved existing roof surfaces must be clean, dry, smooth and adequately attached to resist wind loads.
- Not recommended for use with insulation boards larger than 4'x4'. Do not use warped or curled insulation boards.
- All insulation boards must lay flat upon the roof surface.
- Do not apply when ambient temperatures are below 40°F (4°C).

Go to <https://ibroof.com/tds> for the most up-to-date version of this document.

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