

FleeceBACK®

FAST™ Bag in a Box Adhesive



Overview

FAST Bag in a Box Adhesive is a VOC-free, two-component, construction-grade, insulating, polyurethane adhesive. The low-rise, expanding characteristics of FAST Bag in a Box Adhesive are designed to securely bond Carlisle's FleeceBACK® membranes and insulations to a variety of substrates. FAST Adhesive is compatible with: HP Fiberboard, HP Polyiso, extruded polystyrene (XPS), expanded polystyrene (EPS), spray polyurethane foam (SPF), DensDeck®, Securock® and OSB. Compatible deck types include concrete, cellular lightweight concrete, gypsum, cementitious wood fiber, wood, and painted or galvanized steel. FAST is also compatible with the following roofing materials for recover applications: weathered smooth or gravel-surfaced BUR, mineral cap sheet, weathered smooth or granule-surfaced Mod-Bit, weathered coal tar pitch, aged EPDM, aged TPO, aged Hypalon and Carlisle's 725TR Air and Vapor Barrier. Previously unexposed asphalt vapor barriers or unexposed asphalt must be primed with CAV-GRIP™. FAST Bag in a Box Adhesive is extruded to produce a strong, low-rise adhesive with superior wind uplift resistance and a nominal free-rise core density of 2½ lbs. per cu. ft.

FAST Installation

Requires PaceCart 2™

1. The surface to which adhesive is to be applied shall be dry, free of fins, protrusions, sharp edges, loose and foreign materials, oil, and grease. Depressions greater than ¼" (6 mm) shall be filled with FAST Adhesive or other approved patching material. All sharp projections shall be removed. **Previously unexposed asphalt must be primed with CAV-GRIP for extrusion application.**
2. **Seal gaps between the wall/penetration and concrete deck with Carlisle 725TR or other suitable material to avoid condensation issues and positive pressure from air infiltration.**

3. For re-roofing sprayed-in-place (SPF) urethane roofs, all wet areas must be removed. The surface must then be scarified or perforated, depending on the coating, before applying FAST Bag in a Box Adhesive.
4. Apply **FAST Bag in a Box** when substrate and ambient temperature are 50°F (10°C) or above.
5. Apply **FAST Bag in a Box IC** when substrate and ambient temperatures are between 25° – 50°F (-4° – 10°C). FAST must be kept warm.
6. Remove static mixing nozzle when stopping for more than one minute. Failure to remove nozzle can cause damage to the PaceCart™.
7. High slope applications may require adhesive to be applied to the bottom of the insulation board to avoid running.

FleeceBACK Installation

Mod-Bit Method:

1. Unroll FleeceBACK sheet and position. Fold sheet in half length-wise.
2. Apply FAST Bag in a Box Adhesive to the substrate at 4", 6" or 12" on center with a **minimum ½" wet bead** achieving light-yellow-colored foam.
3. Once "string time" occurs, gradually feed FleeceBACK sheet into FAST adhesive checking for "string body" every few feet. Stop feeding FleeceBACK sheet into the adhesive when applicator reaches adhesive that has NOT developed "string body". Immediately begin to roll membrane with a 150-lbs. weighted roller width-wise. Repeat process until FleeceBACK sheet is fully installed.

Barn Door Method:

1. Unroll FleeceBACK sheet and position. Fold sheets in half width-wise and bond one sheet at a time.
2. Apply FAST Bag in a Box Adhesive to the substrate at 4", 6" or 12" on center with a **minimum ½" wet bead** achieving light-yellow-colored foam.
3. Allow adhesive to rise and develop "string/body" (approx. 1½-2 minutes), then place FleeceBACK membrane into FAST Adhesive. String time will vary based on environmental conditions like temperature and humidity.
4. As soon as membrane is set, roll membrane with a roller not to exceed 150 lbs. to ensure fleece embedment. If adhesive contaminates the splice area, immediately remove with Weathered Membrane Cleaner.

Review Carlisle specifications and details for complete installation information.

FleeceBACK

FAST Bag in a Box Adhesive

Insulation Attachment

1. Apply FAST Bag in a Box Adhesive to the substrate at 4", 6" or 12" on center with a minimum ½" wet bead achieving light-yellow-colored foam. For steel decks, extrusion of FAST must run parallel with and be on top of the steel deck flutes.

Bead spacing parameters for 5-, 10-, or 15-year 55 mph warranties (Contact Carlisle Project Review for bead spacing on higher mph warranties or 20- and 30-year warranty projects)

Building Height	Bead Spacing (Perimeter)	Bead Spacing (Field)
0' – 25'	6" o.c. (4' perimeter)	12" o.c.
25' – 50'	6" o.c. (8' perimeter)	12" o.c.
50' – 75'	6" o.c. (12' perimeter)	12" o.c.
75' – 100'	6" o.c. (16' perimeter)	12" o.c.
100' or greater: Contact Carlisle for bead spacing requirements		

2. Factory Mutual bead spacing guidelines in the perimeter and corner may differ from the table above. Beads at 12" o.c. are not acceptable at perimeters or corners.
3. Place insulation boards (maximum 4' x 4' insulation boards when FAST Adhesive is extruded at 12" o.c. or when boards exceed 4" thickness) into FAST Bag in a Box Adhesive after allowing it to rise between ½" to ¾" and develop "string/body" (approx. 1½-2 min.). String time will vary based on environmental conditions like temperature and humidity. Do not allow the adhesive to over-cure prior to setting insulation boards.
4. Designate one person to walk boards into place and then roll the boards between 5-7 minutes from the initial adhesive application. Boards may be temporarily weighted or relief cut where necessary to keep the boards in constant contact with the adhesive until the adhesive cures.
5. At the beginning of the insulation attachment process and periodically throughout the day, check the adhesion of boards to ensure a tight bond is created and maximum contact is achieved. Allow a minimum of 30 minutes before checking boards.

Precautions

- » Review the application MSDS for complete safety information prior to use.
- » The foam produced is an organic material. It must be considered to be combustible and may constitute a fire hazard. The foam adhesive must not be left exposed or unprotected. Shield from heat and sparks.

- » Do not smoke during application.
- » Use with adequate ventilation. Avoid breathing vapors. Wear a NIOSH- or MSHA-approved respirator for organic vapors with prefilters and solvent-resistant cartridges if concentrations of MDI exceed the TLV or are unknown. Proper safety training is essential for all persons involved in the installation process. If vapor is inhaled, remove to fresh air and administer oxygen if breathing is difficult. Consult a physician immediately.
- » Avoid contact with eyes. Safety glasses or goggles are required. If splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes. Contact a physician immediately.
- » Avoid contact with skin. Wear long-sleeved shirts and long pants. Wash hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water or corn oil. NOTE: Permeation-resistant gloves that meet ANSI/ISEA 105-2005 are required when handling the material or during application.
- » Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. Should the components be stored at temperatures lower than 55°F (13°C), restore to room temperature prior to use. Do not allow FAST Adhesive in boxes or in PaceCart to freeze.
- » Previously unexposed asphalt must be primed with CAV-GRIP.
- » KEEP OUT OF THE REACH OF CHILDREN.

Coverage Rates

FleeceBACK or insulation attachment to a smooth, flat non-porous approved surface:

170 ft ² per gallon at 12" o.c.
95 ft ² per gallon at 6" o.c.
65 ft ² per gallon at 4" o.c.

(ft² per gallon may vary due to jobsite conditions...gravel BUR will consume twice as much adhesive)

Typical Properties and Characteristics

Base	FAST Part A (1) Polymeric Isocyanate	FAST Part B (2) Polyols, Surfactants & Catalysts
Mixing Ratios by Volume	1:1 Part A to Part B	
Viscosity (CPS@25°C)	250	300-500
Avg. Net Weight	10.25 lbs/gal	8.75 lbs/gal
Packaging	5-gal box (19 L)	5-gal. box (19 L)
Speeds	Standard	Standard (50° F and above) IC FAST (25° – 50° F)
Shelf Life	1 year	1 year
VOC Content	0 g/L	0 g/L
Manufacturing Location	Carlisle, PA	Carlisle, PA