# VERSICO'S
# DASH BAG IN A BOX ADHESIVE


## Overview

DASH Bag in a Box Adhesive is a two-component, construction-grade, insulating, polyurethane adhesive. The low-rise, expanding characteristics of DASH Bag in a Box Adhesive are designed to securely bond Versico's VersiFleece® TPO membranes to a variety of substrates. DASH Adhesive is compatible with: fiberboard, 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. DASH is also compatible with the following roofing materials: weathered smooth- or gravel-surfaced BUR, mineral cap sheet, weathered smooth- or granule-surfaced Mod-Bit, weathered coal tar pitch, aged EPDM, aged Hypalon and Versico's 725TR Air and Vapor Barrier. DASH 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 2.5 lbs. per cu. ft.

## Installation*

1. The surface to which adhesive is to be applied shall be dry and free of fins, protrusions, sharp edges, loose and foreign materials, oil and grease. Depressions greater than 1/4" (6 mm) shall be filled with DASH Adhesive or other approved patching material. All sharp projections shall be removed.
2. Seal gaps between the wall and concrete deck with Versico's 725TR or other suitable material to avoid condensation issues.
3. For re-roofing sprayed-in-place (SPF) urethane roofs, all wet areas must be removed. The surface must then be scarfed or perforated, depending on the coating, before applying DASH Bag in a Box Adhesive.
4. Apply DASH Bag in a Box when substrate and ambient temperatures are 50°F (10°C) or above.
5. Apply DASH Bag in a Box Winter Grade when substrate and ambient temperatures are between 25°–50°F (-4°–10°C).
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.

*Requires PaceCart2 and static mixing tips. Both items are sold separately.

## VersiFleece TPO Installation

1. Unroll VersiFleece TPO sheet and position. Fold sheets in half width-wise and bond one sheet at a time.
2. Apply DASH 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 VersiFleece TPO membrane into DASH 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 CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR APPLICATION REQUIREMENTS.


**Versico,** PO Box 1289, Carlisle, PA 17013
Tel: **800.992.7663** Fax: 717.960.4036 Web: **www.versico.com**

## Insulation Attachment

1. Apply DASH 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 DASH 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 Versico 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 Versico for bead spacing requirements | | |

2. Factory Mutual bead spacing guidelines in the perimeter and corner may differ from the table above.

3. Place insulation boards (maximum 4′ x 4′ insulation boards when DASH Adhesive is extruded at 12" o.c. or when boards exceed 4" thickness) into DASH Bag in a Box Adhesive after allowing it to rise and develop string/body (approx. 1.5-2 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 for 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.

## Precautions

1. Review the application MSDS for complete safety information prior to use.

2. The foam produced is an organic material. It must be considered combustible and may constitute a fire hazard. The foam adhesive must not be left exposed or unprotected. Shield from heat and sparks.

3. Do not smoke during application.

4. 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.

5. 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.

6. 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.

7. 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 DASH Adhesive to freeze.

8. DASH Adhesive does not adhere well to previously unexposed asphalt products when applied in bead form at 12" on center.

9. KEEP OUT OF THE REACH OF CHILDREN.

## Coverage Rates

VersiFleece TPO attachment to a smooth, flat non-porous approved surface:

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

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

**DASH BAG IN A BOX ADHESIVE TYPICAL PROPERTIES AND CHARACTERISTICS**

| Base | DASH Part A (1) Polymeric Isocyanate | DASH 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)<br>DASH Winter Grade (25°-50°F) |
| Shelf Life | 1 year | 9 months |