

# DASH™ DUAL TANK ADHESIVE



## Overview

DASH Dual Tank Adhesive is a two-component, construction-grade, low-rise polyurethane adhesive designed for bonding Versico's VersiFleece® membranes and/or insulation to various substrates.

DASH Dual Tank Adhesive is compatible with: Recovery Board, VersiCore MP-H® Polyiso, SecurShield® HD, SecurShield HD Plus, expanded polystyrene (EPS), extruded polystyrene (XPS), spray polyurethane foam (SPF), DensDeck®, SECUROCK®, and some types of OSB.

Compatible deck types include: concrete, cellular lightweight concrete (LWC), gypsum, cementitious wood fiber, wood, and painted or galvanized steel.

DASH Dual Tank Adhesive is also compatible with the following roofing materials: smooth (previously exposed) BUR, mineral cap sheets, smooth or granulated Mod-Bit, aged EPDM, aged Hypalon®, and Versico's VapAir Seal™ 725TR Air and Vapor Barrier.

## Features and Benefits

- DASH Dual Tank Adhesive is VOC-compliant and is not labeled as a flammable product
- Quick, quiet application with very little noise or odor
- Provides superior wind uplift resistance

## Labor Saving Features and Benefits

- Self-contained set includes spray tips, guns, nozzles extensions, and hoses in A-side box
- Reduces labor by eliminating equipment maintenance and breakdowns
- Application time reduced up to 15% when compared to low-pressure dispensing machines
- Increased productivity when Dual Tanks are used simultaneously (each additional Dual Tank can increase productivity up to 100%)
- Reduces membrane application time up to 60% when compared to traditional installation using bonding adhesives on non-VersiFleece systems



## Coverage Rate

VersiFleece TPO or VersiFleece PVC membrane or insulation attachment to lightweight concrete, concrete, wood, smooth (previously unexposed) BUR, mod-bit, mineral cap, or multiple layers of insulation:

- 3,000 sq. ft. per set at 12" o.c.
- 1,500 sq. ft. per set at 6" o.c.
- 1,000 sq. ft. per set at 4" o.c.
- 850 sq. ft. per set for splatter

Please consult Versico for project-specific bead width and spacing.

## Application

### Setup

Note: When spraying the dispensing unit for the first time or when starting a new kit, it is recommended to trigger the gun only a quarter to halfway open until the desired output and spray pattern is achieved. This allows the user complete control of the flow rate and spray pattern that best fits the application.

1. Spray gloves, long sleeves, and protective glasses should be worn during setup and dispensing.
2. For best results, use when material is between 70°F–90°F. Clean grease, oil, dirt, and water off surfaces to be foamed. Shake kits for 10–15 seconds before use.
3. Connect hoses to the tanks prior to opening the A and B tank valves.



Application of petroleum jelly to spray gun



Shaking of A-side and B-side tanks

4. Prior to attaching the nozzle to the dispensing unit, apply a generous amount of petroleum jelly to the face. This will help prevent contamination by cured foam or chemicals and help keep the sealing ports clean. Detailed instructions for attaching the nozzle are included with the A-side tank packaging.
5. When spraying the dispensing unit for the first time, and with each new kit, dispense foam by squeezing the trigger only a quarter to halfway open until the desired output and spray pattern is achieved.
6. **When applying DASH Dual Tank Adhesive as a bead, the 14" extension nozzle is required and must be attached to the end of the gun tip before dispensing adhesive. Attach the nozzle extension by rotating the extension tip clockwise onto the end of the gun tip.**
7. **When applying DASH Dual Tank Adhesive as a splatter application, the 14" extension nozzle should not be used. Splatter application can be achieved by triggering the gun from a distance of 2'-3' off the deck. Adhesive should be dispersed using a horizontal back and forth motion, achieving 85% coverage of the substrate at 0.85 gallons per square.**
8. Once the trigger is released, it **MUST BE REACTIVATED WITHIN 30 SECONDS** or a new nozzle must be installed. Failure to do this could result in chemical leakage, spills, or splashes which can ruin the dispensing unit and/or hoses.
9. After releasing trigger, activate the trigger safety to prevent accidental discharge.
10. The dispensing unit face can be kept clean with the use of petroleum jelly on the face or with a soft cloth to remove residue.
11. Do not remove the hoses from tanks. Do not flush/clean hoses with air, water, or solvent. Removing and/or cleaning the hoses will compromise the foam.

### Storage

1. Close tank valves.
2. Do not store at temperatures above 100°F, or below 50°F. Kits stored below 70°F must be given sufficient time for the internal material temperature to warm up to 70°F prior to use.
3. The used nozzle should be removed and the dispensing unit should be cleaned with a splice wipe in order to help keep its outlet ports clean and free from any dust, dirt, or chemicals that can affect the proper sealing of the nozzle. **ALWAYS** engage the trigger safety and close all supply valves during storage. Do not purge adhesive from hose.

4. Do not remove the hoses from tanks. Do not flush/clean hoses with air, water, or solvent. Removing and/or cleaning the hoses will compromise the foam.

## Re-use of Dispensing Unit After Storage

1. Check the face of the dispensing unit to ensure the outlet ports are clear and the face of the unit is free from dirt, chemical, or other debris. If necessary, use a soft cloth or rag to remove any cured foam or chemical from the face of the dispensing unit. Use of petroleum jelly is recommended to cover the face of the dispensing unit in order to prevent further contamination or if chemical is accidentally leaked into this area.
2. Attach a new or cleaned nozzle to the dispensing unit.
3. Shake kit 10–15 seconds before use.

## Application

1. The surface to which adhesive is to be applied shall be dry, free of fins, protrusions, sharp edges, loose or foreign material, oil, and grease. Depressions greater than ¼" (6 mm) shall be filled with adhesive or other approved patching material. All sharp projections shall be removed. DASH Dual Tanks splatter application is not approved for walls.
2. Seal gap between the wall/penetrations and concrete deck with VapAir Seal 725TR or other suitable material to avoid condensation or air infiltration issues.
3. Apply DASH Dual Tank Adhesive when substrate and ambient temperature is 40°F (4°C) or above.
4. When storing or using adhesive in temperatures below 40°F, the internal adhesive temperature must be kept between 70°F–90°F.
5. In colder temperatures, it is recommended to utilize heated blankets to ensure the tanks are kept warm while dispensing the product.

## VersiFleece TPO or VersiFleece PVC Membrane Attachment

### Slide-in Method:

1. Unroll VersiFleece sheet and position. Fold the sheet back in half lengthwise (end-to-end).
2. Splatter or extrude DASH Adhesive to the substrate.
  - For splatter applications, splatter adhesive to obtain 85% coverage (approx. ⅛" to ¼"-thick after foaming). Ensure end laps are protected from adhesive.
  - For extruded applications, apply at 4", 6", or 12" on center with a min. ½" wet bead. Ensure end laps are protected from adhesive.

3. Once "string time" occurs, gradually feed VersiFleece sheet into DASH Adhesive, checking for "string/body" every few feet. Stop feeding VersiFleece sheet into adhesive when applicator reaches adhesive that has NOT developed "string/body". Immediately begin to roll membrane width-wise with a 150-lb. segmented weighted roller. Repeat process until VersiFleece sheet is fully installed.

## VersiFleece TPO or VersiFleece PVC Membrane Attachment

### Roll-in (Mod Bit) Method:

1. Keeping the VersiFleece sheet on the core, position roll of VersiFleece membrane at the designated starting point.
2. Splatter or extrude DASH Adhesive to the substrate.
  - For splatter applications, splatter adhesive to obtain 85% coverage (approx. ⅛" to ¼"-thick after foaming). Ensure end laps are protected from adhesive.
  - For extruded applications, apply at 4", 6", or 12" on center with a min. ½" wet bead. Ensure end laps are protected from adhesive.
3. Once "string time" occurs, gradually roll VersiFleece membrane into DASH Adhesive, checking for "string/body" every few feet. Stop rolling VersiFleece into adhesive when applicator reaches adhesive that has NOT developed "string/body". Immediately begin to roll membrane width-wise with a 150-lb. segmented weighted roller. Repeat process until VersiFleece sheet is fully installed.

### Disposal Procedures:

1. Eye protection and impervious gloves MUST be worn during disposal procedures.
2. DO NOT dispose of, puncture, or incinerate cylinder tanks while under pressure.
3. When the job is completed or the tanks are empty, pressure must be released from the tanks.
4. With the tank valves open, trigger Dual Tank gun open 100%, discharging remaining adhesive as well as pressure and propellant into a lined waste container.
5. After cylinders are empty of all pressure and propellant, tanks must be vented.
 

CAUTION: tanks could still be under pressure.
6. Close valves and release remaining pressure from hoses. Remove hoses, and with tank valve positioned AWAY from face and others, slowly reopen tank valve and allow excess chemical to drain into a lined waste container and allow pressure to completely vent.

CAUTION: All pressure MUST be vented 100%. Empty tanks could contain potential vapor toxicity hazard. Provide adequate ventilation or respiratory protection (consult SDS).

- Once cylinder is empty and vented, carefully puncture the friable disc on the top of the cylinder. Cylinders should sit for 30 minutes prior to disposal.
- DISPOSE OF EMPTY CYLINDERS AND EXCESS CHEMICAL ACCORDING TO APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- For recycling information, check with your local municipality.

## Insulation Attachment

- Apply Dual Tank Adhesive to the substrate at 4", 6", or 12" on center with a minimum ½" wet bead, achieving light yellow color foam. For steel decks, extrusion of adhesive must run parallel with, and be on top of, the flutes.
- Place insulation boards (maximum 4' x 4' insulation boards when adhesive is extruded at 12" o.c. or when boards exceed 4" thickness) into adhesive after allowing it to rise 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.

Bead spacing guidelines for 5-, 10-, or 15-year, 55-mph warranties are listed below. **Previously unexposed asphalt must be primed with CAV-GRIP™ 3V.**

Contact Versico's Project Review department regarding bead spacing for 20- and 30-year warranties and/or warranties with wind speeds higher than 55 mph.

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

- Designate one person to walk boards into place and then roll with a 150-lb. segmented roller 5 to 7 minutes from the initial adhesive application. Boards may be temporarily weighted or relief cut where necessary to keep boards in constant contact with the adhesive until adhesive is cured.
- 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.
- Ribbon spacing is minimum. Depending on warranty length and wind coverage, ribbon spacing may be reduced. Refer to published specification and warranty.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

## Precautions

- DASH splatter application is NOT approved for walls.
  - Review the applicable Safety Data Sheet (SDS) for complete safety information prior to use.
  - The foam produced is an organic material. It must be considered as 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 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 sleeves and pants. Wash thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water or corn oil.
- NOTE: Nitrile gloves are required when handling Part A directly.
- Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. Should the components be stored at temperatures lower than 70°F (23.8°C), restore to room temperature prior to use. Do not allow material to freeze.
  - High-slope applications require beads to be applied to the back of the insulation board on a flat surface.
  - REMOVE THE NOZZLE IMMEDIATELY when stopping or pausing for more than 30 seconds. Wipe opening with a clean rag and reinstall plastic stopper. When ready to restart application of adhesive, ensure opening in each side is clear and install new nozzle.
  - KEEP OUT OF THE REACH OF CHILDREN.

## SUBSTRATE COMPATIBILITY

Insulation/Underlayments	Roof Decks		Existing Roofing Materials		
VersiCore MP-H® Polyiso	Yes	Concrete	Yes	Smooth BUR	Yes <sup>5</sup>
Recovery Board	Yes	Cellular Lt. Wt. Concrete	Yes	Gravel BUR	Yes <sup>6</sup>
Expanded Polystyrene (EPS)	Yes <sup>1</sup>	NVS Lt. Wt. Concrete	Yes	Mineral Cap Sheet	Yes
Extruded Polystyrene	Yes <sup>2</sup>	Gypsum	Yes	Granular Modified-Bitumen	Yes
New Sprayed Foam	Yes	Cementitious Wood Fiber	Yes	Smooth Modified-Bitumen	Yes
Scarified SPF	Yes	Wood	Yes	Coal Tar Pitch	Yes <sup>7</sup>
DensDeck®	Yes	Painted Steel	Yes	Aluminum-Coated BUR	Yes <sup>8</sup>
SECUROCK®	Yes	Galvanized Steel	Yes <sup>3</sup>	Acrylic-Coated SPF	Yes
Oriented Strand Board	Yes	Acoustical Steel	Yes <sup>4</sup>	Silicone-Coated SPF	Yes <sup>9</sup>
SecurShield®	Yes	Wood Plate	Yes	Aged EPDM, Hypalon, TPO	Yes <sup>10,12</sup>
				Unexposed Asphalt	Yes/No <sup>11</sup>

1. VersiFleece TPO membranes maybe installed directly over minimum 1.5-lb.-density EPS; however, to obtain UL & FM codes, an overlayment of Recovery Board, DensDeck, SECUROCK or VersiCore MP-H Polyiso insulation is required.
2. For insulation attachment only.
3. For new galvanized steel decks, power-washing may be necessary to remove finishing oil residue if present.
4. For acoustical steel decks, fill the flutes with fiberglass or other suitable fill insulation and tack in place with strips of duct tape 3' o.c., or other adhesive, prior to spraying the deck with FAST Adhesive.
5. Existing Smooth BUR must be Type III or IV asphalt if the VersiFleece PVC and KEE HP or VersiFleece TPO membrane is to be installed directly without insulation.
6. A minimum ½" Recovery Board or insulation is required over properly prepared gravel BUR. VersiFleece membrane cannot be installed directly over a gravel/slag surface.
7. An insulation providing the necessary R-value must be specified to prevent the coal tar pitch from softening. VersiFleece membranes cannot be installed directly to coal tar pitch.
8. Any loose coatings must be removed by power-washing or by physical abrasion prior to the application of FAST Adhesive. A test installation over the aluminum-coated smooth BUR is recommended to ensure the aluminum coating is fully adhered.
9. Silicone-coated substrates must be scarified (coating removed) prior to the application of FAST Adhesive.
10. Power-washing aged EPDM, Hypalon, or TPO membrane is required prior to the application of FAST Adhesive.
11. Requires CAV-GRIP for all applications.
12. Contact Versico for specific requirements on TPO recover.

## TYPICAL PROPERTIES AND CHARACTERISTICS

	Dual Tank-A	Dual Tank-B
Base	Polymeric Isocyanate	Polyols, Surfactants, Catalyst
Viscosity (CPS@25°C)	250	200
Average Net Weight	10.25 lbs/gal	9 lbs/gal
Packaging	59 lbs (26.8 kg)	57 lbs (25.8 kg)
Shelf Life	1 year	1 year

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

## LEED® INFORMATION

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Geismer, LA