

Flexible DASH™ Dual Tank Adhesive



Overview

Versico's Flexible 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. Now featuring an HFO blowing agent, Flexible DASH Dual Tanks have improved characteristics compared to products that use an HFC blowing agent.

Flexible DASH Dual Tank Adhesive is compatible with: Versico Recovery Board, VersiCore® Polyiso, SecurShield® Polyiso, SecurShield HD Plus, expanded polystyrene (EPS), extruded polystyrene (XPS), spray polyurethane foam (new or scarified SPF), DensDeck®, SECUROCK®, and DuraFaceR®.

Compatible deck types include concrete, cellular lightweight concrete (LWC), gypsum, cementitious wood fiber, wood, and painted or galvanized steel. Flexible DASH Dual Tank Adhesive is also compatible with the following roofing materials: smooth (previously exposed) BUR, mineral cap sheets, smooth (previously exposed) or granulated mod bit, aged EPDM, aged Hypalon®, and Versico's VapAir Seal™ 725TR Air and Vapor Barrier.

Labor Saving Features and Benefits

Reduces labor by eliminating equipment maintenance and breakdowns

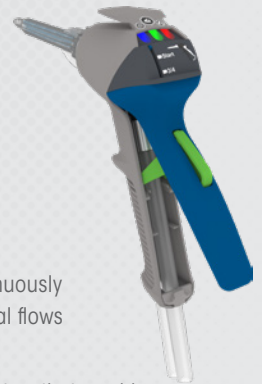
Application time reduced up to 15% when compared to low-pressure dispensing machines

Increased productivity when Dual Tanks are used simultaneously (each additional Dual Tank can increase productivity up to 100%)



Performance that Delivers ... Temperature Sensing Gun (TSG)

Versico's Flexible DASH Dual Tank TSG provides continuous, real-time monitoring of adhesive temperature to help ensure every application is delivered at the ideal material temperature. The TSG is included with every set of Flexible DASH Dual Tank Adhesive.



The TSG delivers:

- Real-time temperature sensing that continuously monitors adhesive temperature as material flows through the gun
- Integrated Blue, Green, and Red LED indicators that provide immediate visual confirmation of proper application conditions
- Reduced risk of installation errors and material waste by clearly identifying out-of-range temperatures before application
- Up to 75% reduced trigger force and ergonomic design to minimize installer fatigue during extended use
- Improved flow control and application consistency to support uniform coverage and reliable curing

Features and Benefits

- VOC free, self-contained system
- HFO blowing agent
 - Green alternative, offering low GWPs and zero ODPs
 - Easier and more efficient splatter application; dispenses in a more uniform pattern
 - Improved coverage rates by up to 16% versus other canister based insulation and membrane adhesives
 - Improved rise and cell structure
 - Improved and more obvious string time
- Non-penetrating, low noise, low odor
- Superior wind uplift performance
- Added puncture resistance of 33 – 50% compared to competitive two-component low-rise adhesives
- Consistent elongation properties up to 150%
- FM, UL, Miami Dade and Florida building approvals



Flexible DASH Dual Tank Adhesive

Coverage Rate

VersiFleece membrane or insulation attachment to lightweight concrete, concrete, plywood and OSB, plank wood, steel, smooth BUR, mod-bit, mineral cap sheets, SPF, or multiple layers of insulation:

(Application rates may vary depending on ambient temperatures, surface, and substrate absorption rate.)

Approximate Coverage Rate (Sq. Ft.)	Splatter*	4" o.c.	6" o.c.	12" o.c.
	2,600 – 2,800	1,100 – 1,300	1,700 – 1,900	3,500 – 3,700

*Dual Tank splatter approved for membrane attachment to smooth flat surfaces only. Dual Tank splatter is not approved for insulation attachment.

May vary depending on climate, temperature, humidity, and equipment. Please consult Versico for project-specific bead widths and spacing.

Application

Substrate Preparation

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" shall be filled with adhesive or other approved patching material. All sharp projections shall be removed.
2. Seal gap between the wall/penetrations and concrete deck with VapAir Seal 725TR, Flashing Foam, or other suitable material to avoid condensation or air infiltration issues.
3. Apply Flexible DASH Dual Tank Adhesive when substrate and ambient temperature are 25°F or above.
4. Bead spacing is minimum. Depending on warranty length and wind coverage, ribbon spacing may be reduced. Refer to published specification and warranty.
5. Previously unexposed asphalt must be primed with CAV-GRIP® 3V.

Setup

Note: When spraying the dispensing unit for the first time, or when starting a new kit, Versico recommends that users trigger the gun only a quarter to halfway open until the desired output and spray pattern is achieved. This allows 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. In colder temperatures, it is recommended to utilize heated blankets to ensure the tanks are kept warm while dispensing the product.

3. Shake kits for 15 – 20 seconds before use.
4. Connect hoses to tanks prior to opening the A and B tank valves.
5. Before attaching the nozzle to the dispensing unit, apply a generous amount of petroleum jelly to the face. This will help to prevent contamination by cured foam or chemicals and will help to keep the sealing ports clean. Detailed instructions for attaching the nozzle are included in packaging for A-side tanks.
6. **When applying Flexible 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 Flexible 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 50% coverage of the substrate at 3.75 lbs/sq.**
8. Once the trigger is released, it MUST BE REACTIVATED WITHIN 15 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 the trigger, activate the trigger safety to prevent accidental discharge.
10. The dispensing unit face can be kept clean by using petroleum jelly on the face or using a soft cloth to remove residue.
11. **Do not remove the hoses from tanks. Do not flush or clean hoses with air, water, or solvent. Removing and/or cleaning the hoses will compromise the foam.**



Application of petroleum jelly to spray gun



Shaking of A-side and B-side tanks



Apply using extension nozzle



Performing the string-tie test

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Storage

1. Close tank valves.
2. Do not store at temperatures above 100°F or below 40°F for long periods of time.
3. The used nozzle should be removed and the dispensing unit should be cleaned with a splice wipe to help keep 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 or 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 outlet ports are clear and the face of the unit is free from dirt, chemicals, or other debris. If necessary, use a soft cloth or rag to remove any cured foam or chemicals from the face of the dispensing unit. The use of petroleum jelly is recommended to cover the face of the dispensing unit 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 kits for 15 – 20 seconds before use.

VersiFleece Membrane Attachment

Slide-in Method:

1. Unroll VersiFleece sheet and position. Fold the sheet back in half lengthwise (end-to-end).
2. Dispense Flexible DASH Adhesive to the substrate.
 - For splatter applications, splatter adhesive to obtain 50% coverage. Ensure end laps are protected from adhesive.
 - For bead applications, apply at 4", 6", or 12" on center with a min. 1.5" wide foamed bead. Ensure end laps are protected from adhesive.
3. Once "string time" occurs, gradually feed VersiFleece sheet into Flexible 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.

Roll-in (Mod Bit) Method:

1. Keeping the VersiFleece sheet on the core, position roll of VersiFleece membrane at the designated starting point.
2. Dispense Flexible DASH Adhesive to the substrate.
 - For splatter applications, splatter adhesive to obtain 50% coverage. Ensure end laps are protected from adhesive.
 - For bead applications, apply at 4", 6", or 12" on center with a min. 1.5" wide foamed bead. Ensure end laps are protected from adhesive.
3. Once "string time" occurs, gradually roll VersiFleece membrane into Flexible 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.

Insulation Attachment:

1. Dispense Flexible DASH Dual Tank Adhesive at the appropriate coverage rate. For steel decks, beads of adhesive must run parallel with, and be on top of, all of the flutes.
2. Place insulation boards (maximum 4' x 4' insulation boards when adhesive is dispensed at 12" o.c. or when boards exceed 4" thickness, or 4' x 8' insulation boards when adhesive is applied at 4", or 6" beads) into adhesive after allowing it to rise and develop "string/body". 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.
3. Bead spacing guidelines for 5-, 10-, 15-, or 20-year, 55-mph warranties are listed below. Contact Versico Project Review for bead spacing on high mph warranties and 30-year warranty projects.

Building Height	Bead Spacing (Perimeter)	Bead Spacing (Field)
0' – 25'	6" o.c. (4' perimeter)	12" o.c.
26' – 50'	6" o.c. (8' perimeter)	12" o.c.
51' – 75'	6" o.c. (12' perimeter)	12" o.c.
76' – 100'	6" o.c. (16' perimeter)	12" o.c.
101' or greater	6" o.c. (24' perimeter)	12" o.c.

4. 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.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.



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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 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, flip tank upside down, and with tank valve positioned AWAY from face and others, slowly reopen tank valve and allow excess pressure and or 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).

7. 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.
8. DISPOSE OF EMPTY CYLINDERS AND EXCESS CHEMICAL ACCORDING TO APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

Precautions

- **Flexible DASH Dual Tank 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 to be combustible and may constitute a fire hazard. 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 application 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.
- Extended storage temperatures in excess of 90°F may affect product shelf life.
- Do not store in temperatures below 40°F.
- Do not allow material to freeze.
- If the components are stored at temperatures lower than 70°F, restore to 70°F before using adhesive.
- High-slope applications require adhesive to be applied to the back of the insulation board on a flat surface.
- KEEP OUT OF THE REACH OF CHILDREN.

Typical Properties and Characteristics

	Dual Tank-A	Dual Tank-B
Base	Polymeric Isocyanate	Polyols, Surfactants, Catalyst
Average Net Weight	9.8 lbs/gal	9.3 lbs/gal
Packaging	65 lbs (29 kg)	57 lbs (26 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.

Green Building Information

Pre-Consumer Recycled Content	0%
Post-Consumer Recycled Content	0%
Solar Reflectance Index (SRI)	N/A
Global Warming Potential (GWP)	Low GWP
Volatile Organic Compounds (VOC) Content	0 g/L
Manufacturing Location(s)	Carlisle, PA Tomball, TX
Corporate Sustainability Report (CSR) Availability	Yes
Environmental Product Declaration (EPD) Availability	No

For more information on substrate compatibility, please refer to the chart found on the Flexible DASH Adhesive Technical Data Bulletin.



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