

Flexible DASH™ Dual Cartridge Adhesive



Overview

Versico's Flexible DASH Dual Cartridge Adhesive is a low-rise, VOC-free, construction-grade, two-component polyurethane adhesive that is designed to bond Versico's insulations and VersiFleece® membranes to a variety of substrates. FM Approvals have been achieved over a variety of deck types and substrates.

Flexible DASH Dual Cartridge Adhesive is compatible with: polyisocyanurate insulation, EPS, extruded polystyrene, DensDeck®, SECUROCK®, OSB, SecurShield™ HD, and SecurShield HD Plus.

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

Flexible DASH Dual Cartridge Adhesive is also compatible with the following substrates for re-cover applications: smooth (previously exposed) BUR, mineral cap sheets, smooth (previously exposed) or granulated SBS mod bit, spray polyurethane foam (SPF), and Versico's VapAir Seal™ 725TR Air and Vapor Barrier/Temporary Roof.

Features and Benefits

- Can be used for most re-roofing projects
- Ideal for smaller, more cut-up projects where mobilization of large equipment is not feasible
- Can be applied using standard-size manual, battery-operated, or pneumatic dual cartridge caulk guns
- Provides superior wind uplift resistance

- Application produces very little noise and odor, excellent for re-roofing occupied buildings
- Increases puncture resistance between 33–50% compared to traditional competitive 2-component low-rise adhesives

Coverage Rate

Flexible DASH Dual Cartridge Adhesive is applied in beads or ribbons at 4", 6", or 12" on center (o.c.). Bead spacing is dependent upon several factors, including the project's wind zone, building height, and code requirements.

Approximate Coverage Rate (Sq. Ft.)

Dual Cartridge	4" o.c.	6" o.c.	12" o.c.
	100 – 200	200 – 300	400 – 600

Each carton contains 4 sets of cartridges. The coverage rate is based upon one carton or four cartridges. Application rates may vary depending on ambient temperatures, surface, and substrate absorption rate.

Application

1. The surface to which adhesive is applied shall be dry, free of fins, protrusions, sharp edges, loose and foreign materials, oil, and grease. Depressions greater than ¼" shall be filled with Flexible DASH Adhesive or other approved patching material. All sharp projections shall be removed. Previously unweathered asphalt must be primed with CAV-GRIP™ 3V.
2. Allow Flexible DASH Adhesive 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.
3. Seal gaps between the wall/penetration and concrete deck with VapAir Seal 725TR or other suitable material to avoid condensation issues and positive pressure from air infiltration.
4. 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 Flexible DASH Adhesive.
5. Apply Flexible DASH Adhesive when substrate and ambient temperature are 25°F (-4°C) or above. Material should be applied when internal material temperatures are between 70° – 90°F (21 – 32°C).
6. High-slope applications may require adhesive to be applied to the bottom of the insulation board to avoid running.

Insulation Attachment

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



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- Place insulation boards (maximum 4' x 4' insulation boards when adhesive is extruded 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. 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. (16' perimeter)	12" o.c.

- 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 has been created and maximum contact has been 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.

VersiFleece Attachment

Roll-in (Mod Bit) Method:

- Keeping the VersiFleece sheet on the core, position roll at the designated starting point.
- Extrude Flexible DASH Dual Cartridge Adhesive to the substrate. Apply at 4", 6", or 12" on center with a minimum 1/2" wet bead. Ensure membrane end laps are protected from adhesive.

- 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 widthwise with a 150-pound segmented weighted roller. Repeat process until VersiFleece sheet is fully installed.

Slide-in Method:

- Unroll VersiFleece sheet and position. Fold the sheet back in half lengthwise (end-to-end).
- Extrude Flexible DASH Dual Cartridge Adhesive to the substrate. Apply at 4", 6", or 12" on center with a minimum 1/2" wet bead. Ensure membrane end laps are protected from adhesive.
- Once "string time" occurs, gradually feed VersiFleece sheet into Flexible DASH Adhesive, checking for "string/body" every few feet. Stop feeding sheet into adhesive when applicator reaches adhesive that has NOT developed "string/body". Immediately begin to roll membrane widthwise with a 150-pound segmented weighted roller. Repeat process until VersiFleece sheet is fully installed.

Precautions

- 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 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 this product 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. If inhaled, remove to fresh air and administer oxygen if breathing is difficult. Consult a physician immediately. Proper safety training is essential for all persons involved in the installation process.
- Avoid contact with eyes. Safety glasses or goggles are required. If splashed in eyes, immediately flush with plenty of clean water for at least 15 minutes and 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.



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- Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. If components are stored at temperatures lower than 60°F (16°C), restore to room temperature prior to use. Do not allow Flexible DASH Dual Cartridge Adhesive to freeze.
- High-slope applications may require beads to be applied to the back of the insulation board on a flat surface.
- When stopping or pausing for more than 15 – 30 seconds, REMOVE THE NOZZLE IMMEDIATELY from partially used cartridges. Wipe opening with a clean rag and re-install plastic stopper. When application resumes, ensure openings in each side are clear and install a new nozzle.
- KEEP OUT OF THE REACH OF CHILDREN.

WARNING (CAUTION): Failure to remove nozzle from partially used cartridges will cause increased internal pressure upon reuse. This can cause the cartridge to rupture, which can result in personal injury.

Typical Properties and Characteristics

Property	Part A (1) Polymeric Isocyanate	Part B (2) Polyols, Surfactants & Catalysts
Viscosity (CPS @ 25°C)	400 cps	400 cps
Average Net Weight	9.88 lbs/gal	9.23 lbs/gal
Packaging	0.2 gal (0.75 L) per cartridge	0.2 gal (0.75 L) per cartridge
Mixing Ratio by Volume	1:1 Part A to Part B	1:1 Part A to Part B
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	Carlisle, PA
VOC Content	0 g/l

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Substrate Compatibility

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

- VersiFleece TPO and VersiFleece PVC membranes may be installed directly over minimum 1.5-lb.-density EPS; however, to obtain UL & FM codes, an overlayment of HP Recovery Board, DensDeck, Securock or HP Polyiso insulation is required.
- For insulation attachment only.
- For new galvanized steel decks, power-washing may be necessary to remove finishing oil residue if present.
- 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 Flexible DASH Adhesive.
- 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.
- A minimum ½" HP Recovery Board insulation is required over properly prepared gravel BUR. VersiFleece membrane cannot be installed directly over a gravel/slag surface.
- 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.
- Any loose coatings must be removed by power-washing or by physical abrasion prior to the application of Flexible DASH Adhesive. A test installation over the aluminum-coated smooth BUR is recommended to ensure the aluminum coating is fully adhered.
- Silicone-coated substrates must be scarified (coating removed) prior to the application of Flexible DASH Adhesive.
- Power-washing aged Hypalon or TPO membrane is required prior to the application of Flexible DASH Adhesive.
- Requires CAV-GRIP 3V for all applications.
- Contact Versico for specific requirements on TPO recover.



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