

 **VERSIFLEECE**



Versico's Most Durable Roofing System


VERSICO
ROOFING SYSTEMS

BUILDING VALUE



Why VersiFleece®?

Versico's VersiFleece systems are preferred for new construction and re-roofing projects, and are particularly well-suited for critical facilities that require superior protection against severe weather, as well as Roof Garden and solar applications. Composed of Versico's TPO, PVC, or KEE HP membranes adhered with a strong 55-mil fleece, VersiFleece systems provide long-term protection against high winds, hail, and punctures.

WHY CHOOSE VERSIFLEECE?

For decades, Versico Roofing Systems has pioneered the single-ply roofing industry with the introduction of its VersiGard® EPDM membrane. Over time, the name Versico has been synonymous with high-quality, innovative commercial roofing materials. Since its inception as a company, Versico has been dedicated to providing construction professionals with the best products, services, and warranty programs on the market. Versico has been recognized as the trusted provider of the most dependable and longest-lasting single-ply roof systems on the market. Today, Versico's product offering has expanded to include VersiWeld® TPO, VersiFlex™ PVC, and VersiFleece membranes, as well as a full line of complementing accessories. And while the company's primary focus is on producing innovative and leading-edge, commercial, low-slope roofing membranes and accessories, Versico also provides insulation, metal roofing, coatings, skylights, pavers, and edge metal. Versico also makes its own primers, membrane cleaners, and adhesives including industry leading Flexible DASH™ adhesive.

Versico's signature products have been installed on a wide range of buildings around the world, including schools, hospitals, government facilities, warehouses, retail, and cold-storage facilities. With billions of square feet of roofing materials sold and installed, Versico continues to lead the industry by providing its valued customers with innovative products, services, and warranty options. Whatever your roofing needs, Versico has a system – and an answer – for you.

Durability, Puncture Resistance, and Long-Term Performance

VersiFleece membranes are installed using FAST®, DASH or Flexible DASH Adhesive for a VOC- free, quiet, low-odor, non-penetrating application and a roof system that offers superior durability, wind uplift, and hail resistance. VersiFleece membranes are lightweight, generally weighing less than half a pound per square foot, compared to an average of 2 pounds per square foot for asphaltic-based systems. Versico's VersiFleece membranes pass FM's Severe Hail rating when adhered directly to concrete and achieve a UL 2218 Class 4 rating. VersiFleece membranes provide uplift pressures ranging from 90-945 psf, depending on the substrate. As a result of this extraordinary wind uplift performance, the VersiFleece/Flexible DASH Adhesive System offers an industry-leading wind performance.



VERSIFLEECE TPO

VersiFleece TPO membranes are manufactured using a hot-melt extrusion process for complete scrim encapsulation, are chlorine- and plasticizer-free, and provide excellent long-term reflectivity. Versico's VersiFleece TPO contains the OctaGuard XT™ weathering package, which provides excellent resistance to UV and extreme temperatures.

Membrane Options

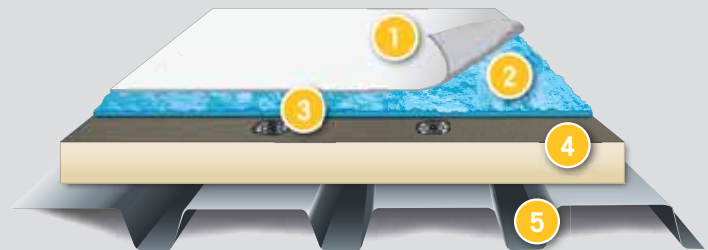
Colors	White, gray, tan
Thicknesses	TPO + Fleece: 100, 115, and 135 mils
Standard Widths	6' and 12'
Standard Lengths	50' and 100' (100- and 115-mil) 75' (135-mil)





Typical Application

- 1 VersiFleece TPO Membrane
- 2 Flexible DASH Adhesive
- 3 Versico Fasteners and Plates
- 4 2" VersiCore MP-H® Polyiso Insulation
- 5 Steel Deck



VersiFleece TPO Benefits

- Fleece reinforcement creates a thick, durable sheet
- Excellent puncture resistance and breaking strength
- Better puncture resistance than Modified Bitumen
- Weighs 75% less than Modified Bitumen
- 75% fewer seams than Modified Bitumen with 12'-wide sheets
- Passes FM Severe Hail test
- ENERGY STAR® and Cool Roof Rating Council (CRRC) approved
- Resists biological growth
- Quiet, low-odor installation; ideal for re-roofing occupied buildings

Heat-Weldable Seams

- Robotic welding ensures consistency and reliability
- Peel strengths exceed 50 pounds per inch

VERSIFLEECE PVC & KEE HP

VersiFleece PVC and KEE HP are manufactured using a hot-melt extrusion process for complete scrim encapsulation and provide excellent reflectivity and resistance to chemicals, acids, bases, restaurant oils, and greases.

Membrane Options

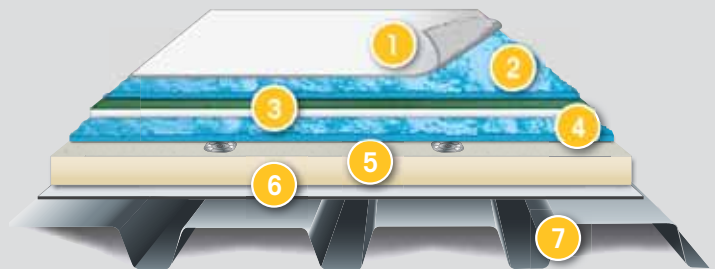
Colors	White, gray, tan
Thicknesses	PVC + Fleece: 115 and 135 mils KEE HP + Fleece: 105, 115, and 135 mils
Standard Lengths	80' (115-mil) and 65' (135-mil)





Typical Application

- 1 VersiFleece KEE HP Membrane
- 2 Flexible DASH Adhesive
- 3 ½" DensDeck®
- 4 Flexible DASH Adhesive
- 5 2" SecurShield™ Polyiso
- 6 VapAir Seal™ MD
- 7 Steel Deck



VersiFleece PVC and KEE HP Benefits

- External fleece reinforcement creates a very thick, durable sheet
- Available in white, gray, and tan
- Excellent puncture resistance and breaking strength
- 67% fewer seams than Modified Bitumen with 10'-wide sheet
- Passes FM Severe Hail test
- Fiberglass reinforcing scrim provides exceptional dimensional stability

- Highly resistant to chemicals, acids, bases, restaurant oils, fats, and greases
- ENERGY STAR and Cool Roof Rating Council (CRRC) approved
- KEE HP resists biological growth
- Quiet, low-odor installation; ideal for re-roofing occupied buildings

Heat-Weldable Seams

- Robotic welding ensures consistency and reliability

FLEXIBLE DASH AND **FAST/DASH**



Flexible DASH Adhesive is applied to metal deck using full spray or bead application.



Once "string time" occurs, insulation is set into Flexible DASH Adhesive.



Flexible DASH is applied to the insulation using full spray or bead application.



Roll with a 150-lb. segmented weighted roller to ensure that fleece fibers are embedded into the Flexible DASH adhesive.

Reduce or Eliminate Thermal Bridging

The National Roofing Contractors' Association estimates that 3-8% of R-value is lost due to fasteners and plates, and up to 10% is lost due to insulation joints. Using standard or Flexible DASH Adhesive for insulation attachment eliminates thermal bridging of mechanical fasteners and helps seal insulation joints. In addition, standard and Flexible DASH Adhesives provide an additional R-value of 0.2 to 0.5 per layer.



Using Flexible DASH eliminates thermal bridging caused by fasteners and helps to seal insulation joints.

Impact-resistant Flexible DASH Adhesive forms a tenacious interlocking bond with the fibers of the fleece and increases resistance to hail and punctures.

Flexible DASH Adhesive is a VOC-free, energy-absorbing, impact-resistant adhesive used to adhere VersiFleece membranes insulation boards for a quiet, low-odor, non-penetrating system application. Flexible DASH offers built-in elongation and energy-absorbing properties that work in conjunction with VersiFleece membranes to enhance resistance to hail and punctures.

VersiFleece and Flexible DASH provide increased protection compared to non-VersiFleece systems.

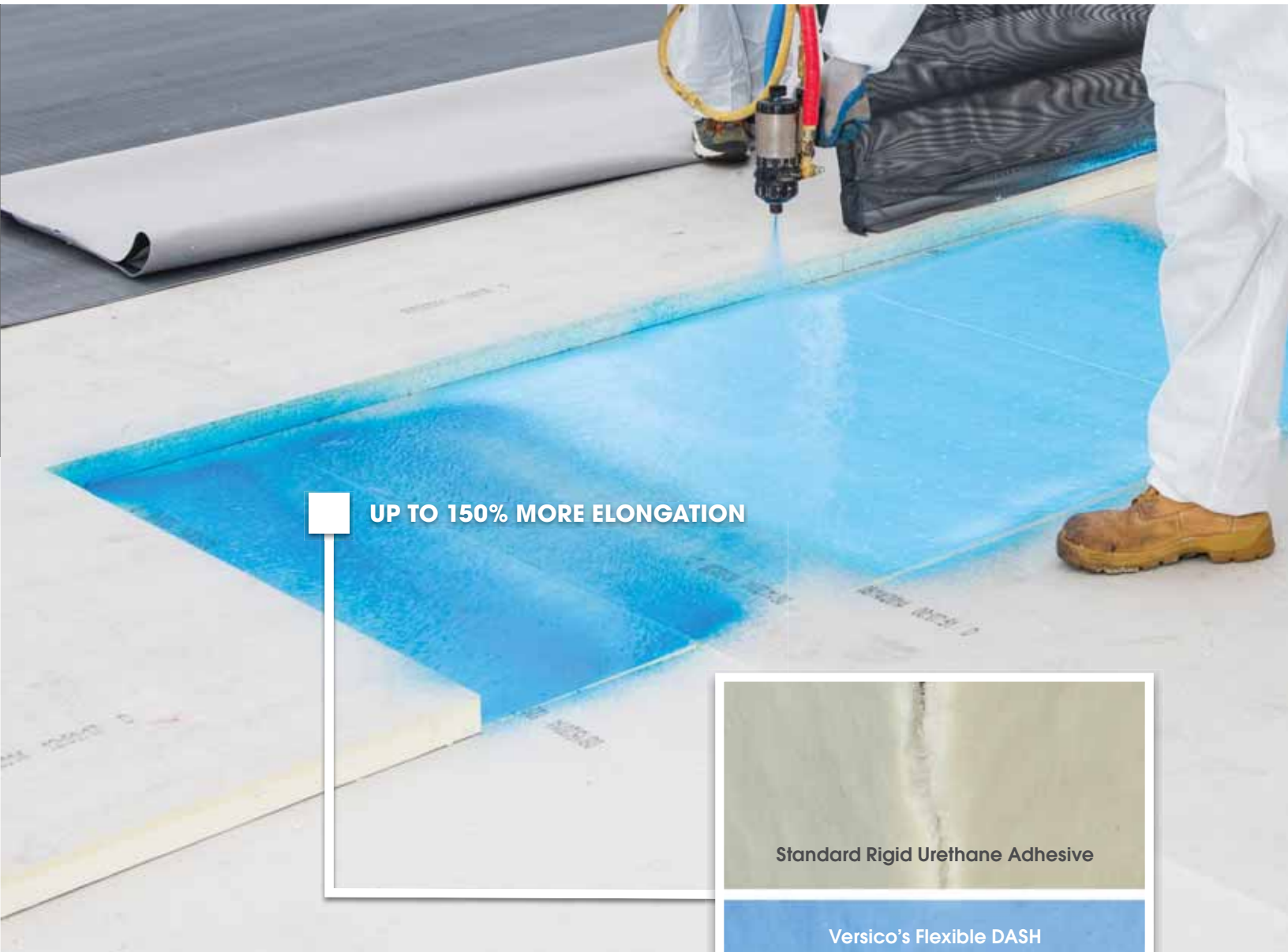


Puncture Resistance
33-50%

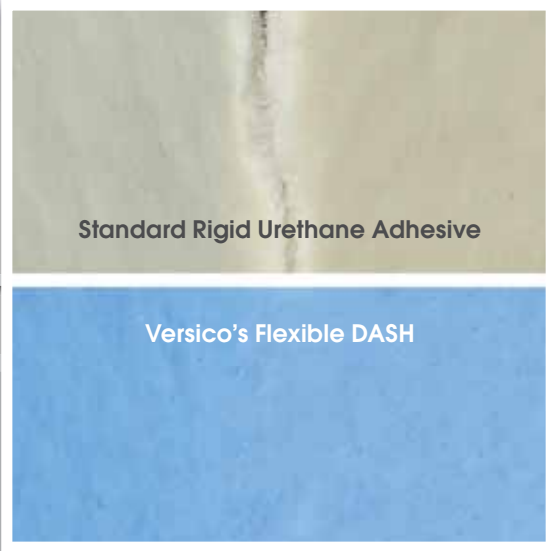


Hail Resistance
33-66%

ADHESIVES



UP TO 150% MORE ELONGATION



Flexible DASH vs. Competitor's 2-Component Urethane Adhesive

	Temp Window	Elongation	Window of Workability
Flexible DASH	25-120°F	150%	3:30
Competitor A	40-90°F	5.7%	2:00
Competitor B	40-90°F	3.2%	1:30

VERSIFLEECE ROOF SYSTEMS

Industry- Leading Warranty Coverage

As a division of Carlisle Construction Materials, Versico has a large warranty reserve, ensuring that your investment is backed by proven financial stability. Versico offers industry leading warranty coverage on all of our roof systems, giving you the peace of mind of knowing that your rooftop will perform for the long haul. Versico's VersiFleece systems are backed by transferrable warranties that provide unparalleled coverage of leaks, high wind speeds, hail, and accidental punctures.



Extensive Applicator Network

Versico has a nationwide network of approved applicators who have completed rigorous technical and hands-on training and have the product knowledge and real-world experience to install your VersiFleece roofing system so that it thrives for years to come.

VersiFleece Specialist

Versico offers a group of dedicated VersiFleece Specialists to assist with technical, sales, and equipment support. Versico's VersiFleece specialists have completed rigorous technical training with 2-component urethane adhesives, adhesive equipment, and VersiFleece systems. Their expertise allows them to provide assistance with jobsite application and training to ensure that your roof is installed to the highest quality standards.

Design Flexibility

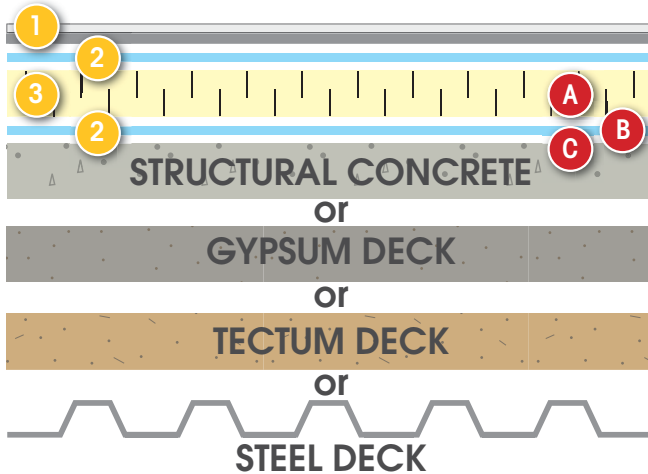
Versico's technical and design services staff will assist you with your VersiFleece roof design, product selection, and jobsite application. Since Versico manufactures a wide variety of roofing membranes, our systems provide the utmost flexibility for your rooftop, and our experts can assist you through the process of designing a VersiFleece roofing system that will enable your building to perform to its optimal capacity.

Technical Services

With decades of combined experience, Versico's technical services staff can provide the expertise you need, assisting with jobsite application and inspecting the rooftop to ensure that it is installed to the highest quality standards.

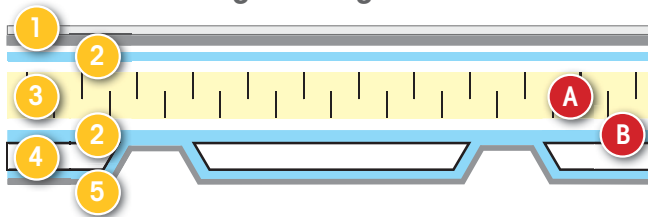
Typical VersiFleece Assemblies

Insulated Assemblies



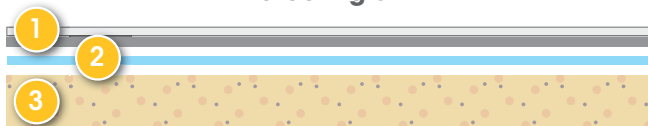
1. VersiFleece Membrane
2. Flexible DASH Adhesive
3. Versico Insulation

Reroofing Standing Seam Metal



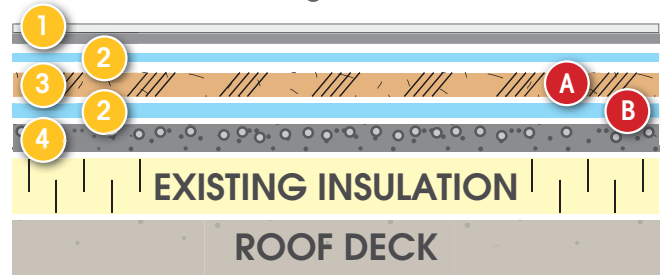
1. VersiFleece Membrane
2. Flexible DASH Adhesive
3. Versico Insulation
4. Flute Fill Insulation
5. Standing Seam Metal Deck

Reroofing SPF



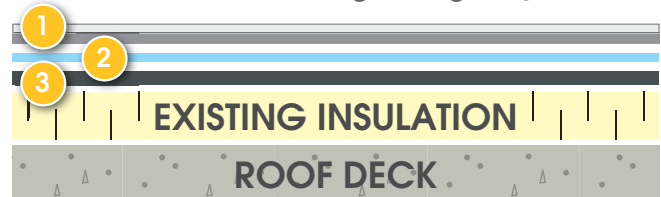
1. VersiFleece Membrane
2. Flexible DASH Adhesive
3. Existing Acrylic SPF or Scarified SPF

Reroofing Gravel BUR



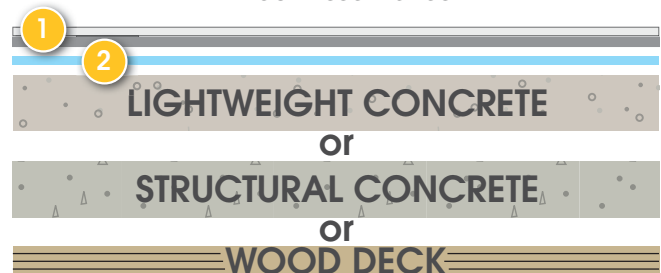
1. VersiFleece Membrane
2. Flexible DASH Adhesive
3. Versico Insulation
4. Gravel BUR

Reroofing Mod Bit, Smooth BUR or Aged Single Ply



1. VersiFleece Membrane
2. Flexible DASH Adhesive
3. Smooth BUR, Modified Bitumen or Aged Single Ply

Direct Assemblies



1. VersiFleece Membrane
2. Flexible DASH Adhesive

- Note:**
- A** Multiple layers of insulation are acceptable.
 - B** HPV Fasteners can be substituted for Flexible DASH Adhesive based on pullout values.
 - C** Optional Versico 725TR vapor retarder



A SINGLE SOURCE FOR SINGLE-PLY ROOFING

800.992.7663 • www.versico.com