



Versico's Most Durable Roofing System



**BUILDING VALUE**



Versico's VersiFleece® systems are ideal for new construction and re-roofing projects and are particularly well-suited for roof gardens, solar applications, and critical facilities that require superior protection against severe weather. Composed of Versico's TPO, PVC, or KEE HP membrane adhered to 55-mil fleece, VersiFleece systems provide long-term protection against high winds, hail, and punctures. VersiFleece membranes are installed using Flexible DASH Adhesive for a quiet, VOC-free, low-odor, non-penetrating application.

## ADVANTAGES OF VERSIFLEECE & FLEXIBLE DASH ADHESIVE

When applied to VersiFleece membranes, Versico's impact-resistant Flexible DASH Adhesive forms a tenacious, interlocking bond with the fibers of the fleece and increases the membrane's resistance to hail and punctures.



Fleece reinforcement creates a thick, durable sheet and increased protection



When adhered directly to concrete, all VersiFleece membranes pass FM's Severe Hail Test and achieve a UL 2218 class 4 rating, FM Severe Hail. FM Very Severe Hail (VSH) ratings are available for some VersiFleece assemblies.



Industry-leading wind performance with uplift pressures from 90-945 psf (depending on substrate)



Excellent resistance to punctures and tears



Quiet, low-odor installation – ideal for re-roofing occupied buildings



Weights 75% less with up to 75% fewer seams than modified bitumen



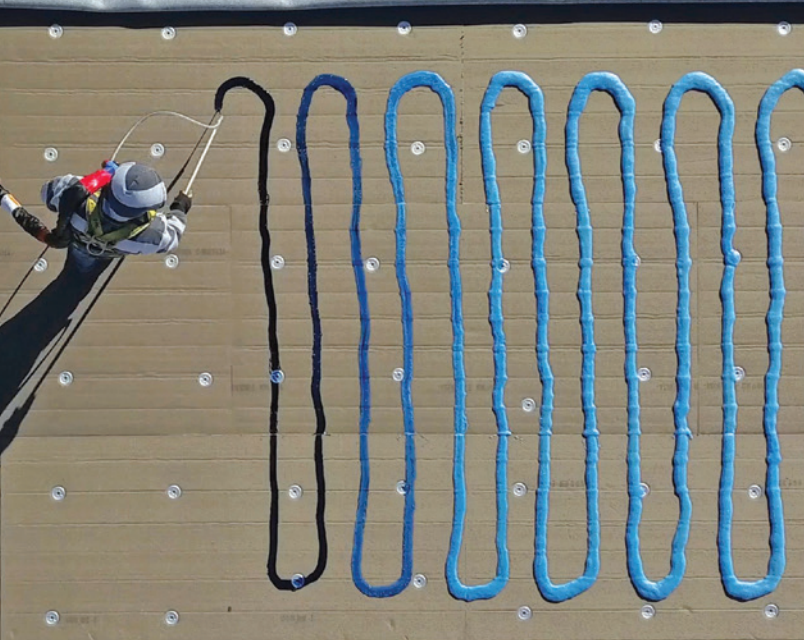
VersiFleece TPO, PVC, or KEE HP membranes are Cool Roof Rating Council (CRRC) certified. The combination of VersiFleece membranes with Flexible DASH Adhesive increases energy savings by eliminating thermal bridging of mechanical fasteners and insulation joints, providing additional R-value.



Flexible DASH Adhesive is HFC free, providing a green alternative, offering low GWP and ZERO ODPs (Ozone Depleting Particles).







## 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 Contractor Network

Versico has a nationwide network of approved contractors 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 Specialists

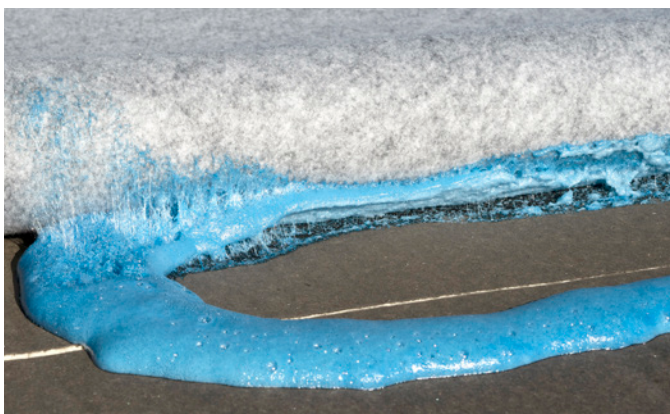
Versico offers a group of dedicated VersiFleece Specialists to assist with technical, sales, and equipment support. Versico's VersiFleece Specialists have completed rigorous technical training with 2-component urethane adhesives, adhesive equipment, and VersiFleece systems. Their expertise allows them 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 project review 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.



# 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.

APEEL™ Protective Film guards the TPO membrane's surface from scuffs and dirt accumulation during installation, improving the roof system's appearance and long-term performance.

## Membrane Options

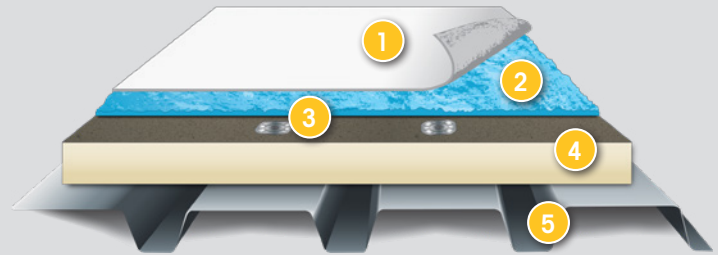
Available with APEEL Protective Film

<b>Colors</b>	White, Gray, Tan. *Special Colors: Medium Bronze, Rock Brown, Terra Cotta, Slate Gray, Patina Green
<b>Thicknesses</b>	TPO + Fleece: 100, 115, and 135 mils
<b>Standard Widths</b>	6' and 12'
<b>Standard Lengths</b>	50' and 100' (100- and 115-mil) 75' (135-mil)

\*Special Colors available in limited thicknesses and sizes. Contact a Versico Representative for more details.

## Adhered Assembly Example

- 1 VersiFleece TPO Membrane
- 2 Flexible DASH Adhesive
- 3 Versico Fasteners and Plates
- 4 2" VersiCore® 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 UL 2218 Class 4, FM Severe and FM Very Severe Hail tests

- 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



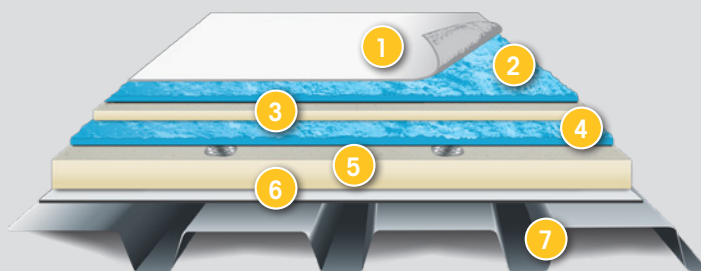
VersiFleece PVC and KEE HP are manufactured using a hot-melt extrusion process for complete scrim encapsulation and provide excellent reflectivity and resistance to chemicals, acids, bases, restaurant oils, and greases.

## Membrane Options

<b>Colors</b>	White, Gray, Tan, Light Gray and Slate Gray
<b>Thicknesses</b>	PVC + Fleece: 115 and 135 mils KEE HP + Fleece: 105, 115, and 135 mils
<b>Standard Lengths</b>	80' (115-mil) and 65' (135-mil)

## Adhered Assembly Example

- 1 VersiFleece KEE HP Membrane
- 2 Flexible DASH Adhesive
- 3 Cover Board
- 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, tan, light gray, and slate gray
- Excellent puncture resistance and breaking strength
- 67% fewer seams than Modified Bitumen with 10'-wide sheet
- Passes UL 2218 Class 4 and FM Severe Hail tests
- Available with both polyester and fiberglass scrim

- Highly resistant to chemicals, acids, bases, restaurant oils, fats, and greases
- 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



# VERSICO'S RAPIDLOCK ROOFING SYSTEMS

Versico's RapidLock (RL) Roofing System is a revolutionary membrane attachment method that provides a fully adhered system without the use of adhesives. The RL system utilizes VELCRO® Brand Securable Solutions along with VersiFleece RL EPDM, VersiFleece RL TPO, or VersiFleece RL PVC to achieve performance on par with traditional fully adhered single-ply systems. Underlayment options include VersiCore RL, SecurShield RL Polyiso, or SecurShield HD RL Polyiso. The RL system is VOC- and odor-free, has no application temperature restrictions, and provides significant labor savings thanks to the simplicity of the system and ease of installation.



## System Features & Benefits

- No application temperature restrictions
- VOC- and odor-free
- Adhesive-less system saves time and labor
- Integrated with an adhered slip sheet for ease of installation

- RL fleece is specifically designed to work with RL Insulation facer
- Superior Wind uplift performance and ratings (up to FM 1-225), comparable to traditional fully adhered single-ply systems
- Fleece reinforcement adds toughness, durability, and enhanced resistance to hail and punctures

- 1 VersiFleece RL EPDM Membrane with RapidLock Technology
- 2 VersiFleece RL TPO or VersiFleece RL PVC Membrane with RapidLock Technology
- 3 Insulation Fasteners and Plates
- 4 VersiCore® RL Polyiso, SecurShield RL Polyiso or SecurShield HD RL Polyiso with RapidLock Technology
- 5 VersiCore Polyiso or SecurShield Polyiso
- 6 Steel Deck



## VersiFleece RapidLock (RL) EPDM

- QAT Seam Technology provides consistent seam quality and enhances productivity
- Potential energy savings in northern and central climates by reducing heating usage.

## VersiFleece RapidLock (RL) TPO

- Wide window of weldability
- Utilizes Octaguard XT™ weathering package technology to withstand extreme durability testing intended to simulate exposure to severe climates.

## VersiFleece RapidLock (RL) PVC

- Enhanced resistance to chemicals, acids, restaurant oils and greases.
- 67% fewer seams than modified bitumen systems.

## RapidLock (RL) Polyiso Insulation/Cover Boards

- RL facer specifically designed to work with RL membranes
- Standard compressive strength Polyiso insulation and high-density insulating cover boards available
- Contains 0% ozone-depleting components and no CFCs
- Approved for direct application to steel decks

## System Codes

- UL Standard 790; Class A Roofing Systems
- FM uplift values of up to 225psf can be achieved
- For code specifics, refer to Versico's VersiFleece Code Approval Guide.

# VERSIFLEECE AC MULTI-PLY & VERSIFLEECE FR (FIRE-RATED) ROOFING SYSTEMS

## VERSIFLEECE AC MULTI-PLY ROOFING SYSTEMS

Versico's VersiFleece AC multi-ply roofing system uses highly puncture resistant VersiFleece AC TPO or VersiFleece AC EPDM membranes adhered with Versico's Cold Applied or Hot Mopped adhesive. The system works great for recovering existing asphalt-based roofing systems, as the VersiFleece AC TPO or VersiFleece AC EPDM membranes can be adhered directly to primed or power-washed smooth or granular surface BUR or SBS modified bitumen systems.

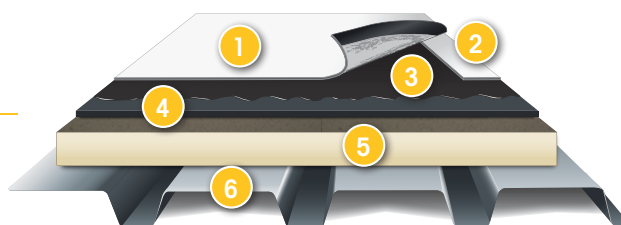
Advantages of a VersiFleece AC system include:

- Fast and quiet installation
- Low-VOC Cold Applied adhesive
- Added redundancy
- Up to 75% fewer seams than modified bitumen
- Improved resistance to ponding water

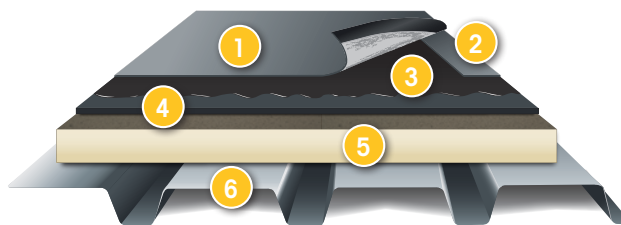
### Multiple-Ply Roofing Systems

#### Typical Cold Applied Application

- 1 VersiFleece AC Membrane
- 2 2.5" Selvage Edge for EPDM or TPO
- 3 Versico's Cold Applied Adhesive
- 4 Existing Smooth or Mineral-Surfaced Built-Up or Modified Bitumen Systems
- 5 Existing Insulation
- 6 Metal Deck



VersiFleece AC TPO



VersiFleece AC EPDM

## VERSIFLEECE FR (FIRE-RATED) TPO ROOFING SYSTEMS

Versico's VersiFleece FR (Fire-Rated) TPO mechanically fastened roofing systems provides a UL Class A fire rating for direct-to-wood-deck applications. Versico's patent-pending FR fleece significantly reduces labor by eliminating the need for multiple layers of base sheet or a gypsum thermal barrier.



Advantages of a VersiFleece FR TPO roofing system include:

- No VOCs or odors
- Fleece reinforcement adds toughness, durability, and excellent resistance to hail and punctures
- Wide window of weldability
- Enhanced with the OctaGuard XT weathering package, providing exceptional resistance to heat, solar UV, ozone, and oxidation
- Qualifies for Versico's 2" hail coverage warranty

#### Assembly Example

- 1 VersiFleece FR TPO Membrane
- 2 2.5" Selvage Edge for TPO
- 3 Fasteners and Plates
- 4 Combustible Deck



VersiFleece FR TPO

# FLEXIBLE DASH **ADHESIVE**



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.

## Product Comparison Flexible DASH vs. Competitors



	Temp Window	Elongation	Window of Workability	Warranty Enhancements
Flexible DASH	25–120°F	150%	3:30	✓
Competitor A	40–90°F	3.2%	1:30	
Competitor B	40–90°F	5%	1:30	

**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%**



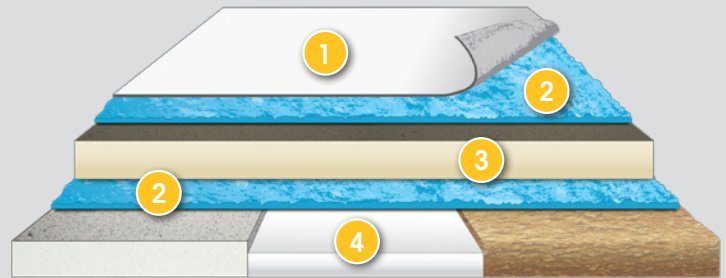
# FLEXIBLE DASH EQUIPMENT GUIDE

Adhesive Dispensing Equipment	Adhesive Packaging Option	Power Requirements	Application Rate	Bead/Spray	Maintenance (min.) (Daily/Weekly/Monthly)	Maintenance Material
Predator (Air Requirement: 50 CFM)						
	50-Gallon Drums (with Accessory Kit) 15-Gallon Drums	220V 30A	1.5	Bead/Spray	25/60/60	Lube
HULK (Air Requirement: 15 CFM)						
	50-Gallon Drums 15-Gallon Drums	120 VAC 15A	2.3	Bead/Splatter	25/25/30	Flush Lube
P55						
	50-Gallon Drums 15-Gallon Drums	120 VAC 15A	2	Bead/Splatter	25/25/30	Lube Neutralizer
Patriot Jr.						
	15-Gallon Drums 5-Gallon Jugs	120 VAC 15A	2	Bead/Splatter	25/25/30	Lube Neutralizer
EZLoader						
	15-Gallon Drums 5-Gallon Jugs	120 VAC 15A	2	Bead	25/25/30	System Pump Flush

# TYPICAL VERSIFLEECE ASSEMBLIES

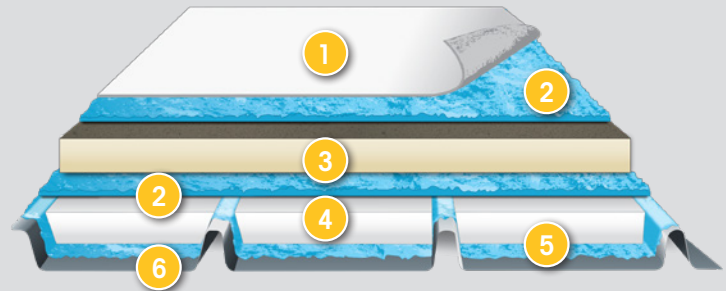
## Insulated Assembly Example

- 1 VersiFleece Membrane
- 2 Flexible DASH Adhesive
- 3 Versico Insulation
- 4 Structural Concrete, or Gypsum Deck, or Tectum Deck



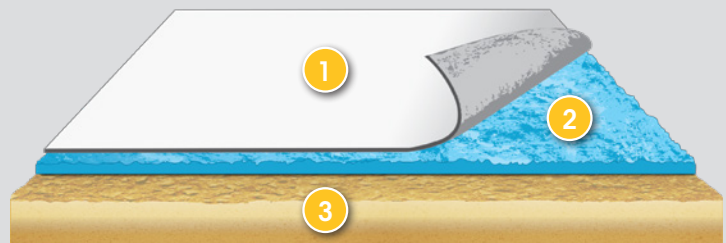
## Reroofing Standing Seam Metal Assembly Example

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



## Reroofing SPF Assembly Example

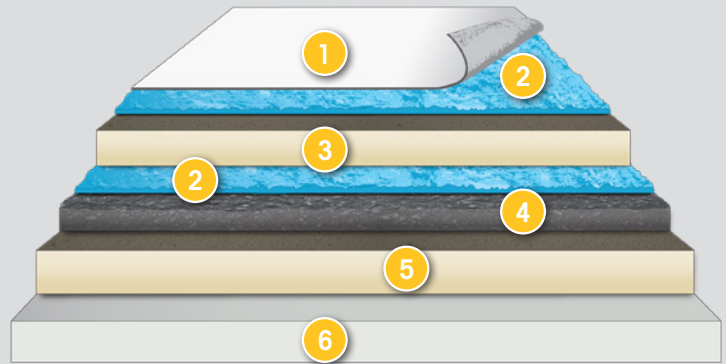
- 1 VersiFleece Membrane
- 2 Flexible DASH Adhesive
- 3 Existing Acrylic SPF or Scarified SPF



# AND VERSIFLEECE RECOVER OPTIONS

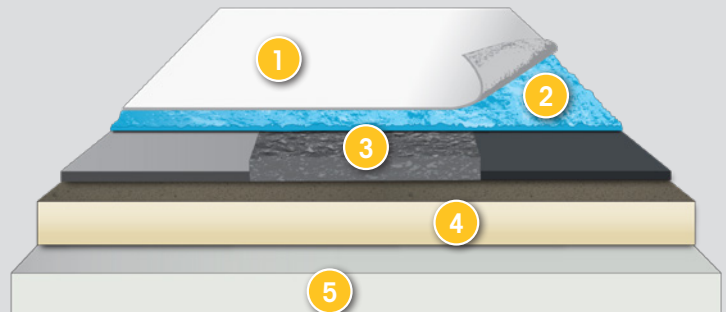
## Reroofing Gravel BUR Assembly Example

- 1 VersiFleece Membrane
- 2 Flexible DASH Adhesive
- 3 Versico Insulation
- 4 Existing Gravel BUR
- 5 Existing Insulation
- 6 Roof Deck



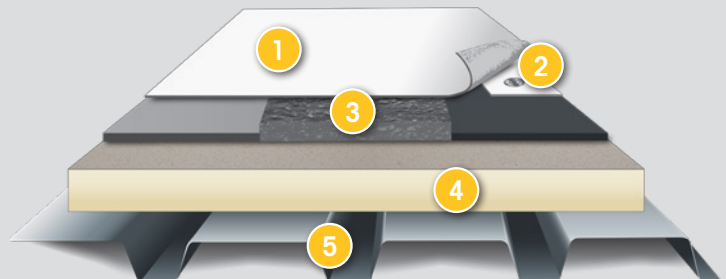
## Reroofing Mod Bit, Smooth BUR or Aged Single Ply Assembly Example

- 1 VersiFleece Membrane
- 2 Flexible DASH Adhesive
- 3 Existing Single-Ply, or Smooth/Mineral Surface BUR, or Modified Bitumen
- 4 Existing Insulation
- 5 Roof Deck



## VersiFleece Mechanically Fastened Recovery System Example

- 1 VersiFleece Membrane
- 2 Fasteners and Plates
- 3 Existing Single-Ply, or Smooth/Mineral Surface BUR, or Modified Bitumen
- 4 Existing Insulation
- 5 Existing Metal Deck







## A SINGLE SOURCE FOR SINGLE-PLY ROOFING

800.992.7663 • [www.versico.com](http://www.versico.com)