



Winnebago County Public Safety Building Reroof Addendum 1

March 6, 2026

REQUEST FOR INFORMATION (RFI) RESPONSES:

RFI-1

- Can the existing through-wall flashings be reused where they are currently in place?
- **RESPONSE:** Yes, please maintain the existing through-wall flashing. The drawings have been updated to communicate this, as required.

RFI-2

- The existing roof assembly consists of a flat structural deck with 1/8" tapered insulation. Should we include 1/8" tapered insulation in our scope to match existing conditions?
- **RESPONSE:** Yes, please include 1/8" tapered insulation to match the existing conditions and provide proper slope to the existing roof drawings. Drawings have been updated to show the proposed tapered insulation w/ 1/8" per foot slope.

RFI-3

- If tapered insulation is required, are you expecting a minimum R-30 or an average R-30 across the roof system?
- **RESPONSE:** To accommodate the existing flashing in place with tapered insulation, please use an **AVERAGE R-30** across the roof system.

RFI-4

- Please see the attached **APPROVED** Versico Substitution Request for TPO and PVC systems.

RFI-5

- Is a bid bond required in addition to a performance bond?
- **RESPONSE:** No, just a performance bond is required.

Revisions include the following changes to the most recent set of Drawings (Bid Set dated 02/19/2026)

CHANGES TO THE DRAWINGS:

Sheet G000: Cover Sheet

1. Revised issue title and date to "Addendum 1 – March 6, 2026".

Sheet D101: Demolition Roof Plan

1. Revised keynote D6 to show existing through-wall flashing to remain in certain areas.

Sheet A101: Foundation Plan

1. Revised keynote A7 to show existing through-wall flashing to remain in certain areas.
2. Added tapered insulation and roof drains.

Sheet A102: Roof Details

1. Revised detail 2 to show a through wall flashing detail in lieu of the previous detail.

Please let me know if you have any questions or comments regarding the information outlined above.

Sincerely

Zach Enderle, AIA, LEED AP, NCARB
Vice President
1919 Architects, P.C.

Attachments: (1) Set of Revised Drawings; Approved TPO and PVC Substitution Requests



SUBSTITUTION REQUEST

Project Winnebago County Public Safety Substitution Request Number: _____
Rockford From: Jason Smith
 To _____ Date: 2/27/2026
 _____ A/E Project Number _____
 Re: RFA for Versico Products Contract For: _____

Specification Title: PVC Roof Membrane Description: 60 Mil White Sure Flex PVC
 Section: 07 5400 Page: 1 Article/Paragraph: 2.02

Proposed Substitution: Versiflex PVC 60 mil White
 Manufacturer: Versico LLC Address: Carlisle, PA. Phone: 1-800-992-7663
 Trade Name: 60 PVC White Model No.: Versiweid PVC

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
 Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

- The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
 - Same warranty will be furnished for proposed substitution as for specified product.
 - Same maintenance service and source of replacement parts, as applicable, is available.
 - Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
 - Proposed substitution does not affect dimensions and functional clearances.

Submitted by: Jason Smith
 Signed by: _____
 Firm: Roofing Reps Inc. Versico sales consultants
 Address: 5210 20th Ave SW
 Telephone: (Cell) 319-533-5960 / Email Jason.Smith@roofingrepresentatives.com

A/E REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01330.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____



Winnebago Public Safety 07 5400

Winnebago Public Safety 07 5400

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January 1, 2024

Re: Versico Roofing Systems & Carlisle Construction Materials (CCM)

To Whom It May Concern,

Please accept this letter as a clarification of the relationship between Versico Roofing Systems and Carlisle Construction Materials (CCM). I am writing so that you might be able to make an informed decision on your roofing needs. In my capacity at Carlisle Construction Materials, I am responsible for the sales of both of CCM's roofing brands, Carlisle SynTec Systems and Versico Roofing Systems.

Versico is a division of Carlisle Construction Materials, LLC (CCM). As such, its roofing systems are inspected by CCM employees, and its warranties are backed by CCM. Carlisle Construction Materials does not back the roofing system warranties of any systems other than those marketed under the Carlisle SynTec or Versico names. Versico's materials are manufactured by CCM and meet the same technical specifications as Carlisle SynTec's materials.

CCM elects to market two brands through separate representative channels in order to reach a wider segment of the commercial roofing market. From a product and installation quality perspective, the Carlisle SynTec and Versico brands can be considered as equals.

I trust that this will clarify any questions you might have. If not, please feel free to call me at (800) 479-6832.

Sincerely,

A handwritten signature in black ink, appearing to read "Joe Stassi", with a stylized flourish at the end.

Joe Stassi
Executive Vice President, Commercial Roofing
Carlisle Construction Materials

VersiFlex™ PVC Membrane



Overview

Versico's VersiFlex PVC is an advanced-formula, heat-weldable PVC membrane that is designed for long-term weatherability and performance. The physical properties of the membrane are enhanced by a tenacious, anti-wicking, weft-inserted polyester fabric that is encapsulated by thick PVC-based top and bottom plies. The membrane's smooth surfaces facilitate a permanent weld for a consistent, watertight, monolithic roof assembly.

Features and Benefits

- Exceptional fire and chemical resistance
- Fully formulated monolithic top-ply for long-term weatherability
- Enhanced physical characteristics meeting ASTM D4434 Type IV requirements
- Antimicrobials throughout the polymer for increased resistance to mold, mildew, and algae growth
- Highly flexible with a wide window of weldability for ease of installation
- Available colors:



Sustainable Attributes

Versico Roofing Systems' focus has always been innovation — innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- PVC polymer derived from less than 50% fossil fuels
- Up to 10% pre-consumer recycled content
- Fully recyclable when used in mechanically-attached systems
- 3rd-party verified Environmental Product Declaration available
- California Title 24 compliant*
- See Radiative Properties and LEED® Information tables below for additional attributes

*White only.

Installation

Installation requires minimal labor and few components, making it quick and easy to install. Sheet seams are heat-welded together using hot-air welding equipment to create a monolithic, water-tight roof system.

VersiFlex PVC is suitable for the following roof systems:

Fully-Adhered – membrane is adhered to a suitable substrate utilizing an appropriate bonding adhesive

Mechanically Attached – membrane is attached to a suitable substrate utilizing plates and fasteners which are overlapped with membrane

Induction-Welded – membrane is attached to a suitable substrate via an induction welding tool being placed over the membrane where a fastened PVC induction welding plate is located to weld the two components together

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.



VersiFlex™ PVC Membrane

Precautions

1. Sunglasses that filter out ultraviolet light are strongly recommended when working on reflective membranes. Roofing technicians should dress appropriately and wear sunscreen.
2. Exercise caution when walking on wet membranes; membranes may be slippery when wet or due to frost and ice buildup.
3. Care must be exercised while working close to a roof edge when the surrounding area is snow-covered, as the roof edge may not be clearly visible.
4. Use proper stacking procedures to ensure sufficient stability of the materials.
5. Store membrane in its original, undisturbed plastic wrap in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins.
6. Membrane that has been exposed to the weather or contaminated with dirt must be prepared with VersiFlex PVC/KEE HP Membrane Cleaner prior to hot-air welding.

Supplemental Approvals, Statements and Characteristics

1. VersiFlex PVC meets or exceeds the requirements of ASTM D4434 Standard Specification for Poly (Vinyl Chloride) Sheet Roofing. VersiFlex PVC is classified as Type III and/or Type IV as defined by ASTM D4434.
2. VersiFlex reinforced PVC was tested for dynamic puncture resistance per ASTM D5635-04 using the most recently modified impact head. 50-mil thick membrane was watertight after an impact energy of 22.5 J (16.6 ft-lbf), which passes the ASTM D4434 requirement.
3. VersiFlex reinforced PVC was tested for static puncture resistance per ASTM D5602-98 and exceeded 33 lbf (145 N), which passes the ASTM D4434 requirement.

Typical Properties and Characteristics

Physical Property	ASTM D4434 Requirement	50-mil	60-mil	80-mil
Thickness over scrim , in. (mm) ASTM D4434 optical method average of 3 areas	0.016 min (0.40)	0.022 (0.559)	0.027 (0.686)	0.037 (0.940)
Weight , lbs/ft ² (kg/m ²)	No requirement	0.33 (1.61)	0.40 (1.95)	0.55 (2.68)
Breaking strength (MD x CD), lbf (N) ASTM D751 grab method	275 min (1223)	320 x 300 (1423 x 1334)	330 x 300 (1468 x 1334)	360 x 330 (1601 x 1468)
Elongation break of reinforcement (MD x CD), % ASTM D751 grab method	25 min	30 x 30	30 x 30	30 x 30
Tearing strength (MD x CD), lbf (N) ASTM D751 proc. B, 8 in. x 8 in.	90 min (400)	100 x 120 (445 x 534)	100 x 130 (445 x 578)	100 x 132 (445 x 587)
Low temperature bend , ASTM D2136, no cracks 5x at -40°C	PASS	PASS (-40°C)	PASS (-40°C)	PASS (-40°C)
Linear dimensional change , % ASTM D1204, 6 hours at 176°F	±0.5 max	0.4	0.4	0.4
Ozone resistance , no cracks 7x ASTM D1149, 100pphm, 168 hrs	PASS	PASS	PASS	PASS
Water absorption resistance , mass % ASTM D570, 166 hours at 158°F water	±3.0 max	2.0	2.0	2.0
Field seam strength , lbf/in. (kN/m) ASTM D1876 tested in peel	No requirement	25 (4.4) min 60 (10.5) typ.	25 (4.4) min 60 (10.5) typ.	25 (4.4) min 60 (10.5) typ.
Water vapor permeance , Perms, ASTM E96 proc. B	No requirement	0.10 max 0.05 typ	0.10 max 0.05 typ	0.10 max 0.05 typ
Puncture resistance - Federal, lbf (kN) FTM 101C, method 2031	No requirement	280	320	380
Puncture resistance - Dynamic, J (ft-lbf) ASTM D5635	20 (14.7)	PASS	PASS	PASS
Puncture resistance - Static, lbf (N) ASTM D5602	33 (145)	PASS	PASS	PASS
Xenon-Arc resistance , no cracks/crazing 10x, ASTM G155 0.35 W/m ² at 340-nm, 63°C B.P.T. 12,600 kJ/m ² total radiant exposure 10,000 hours	PASS	PASS	PASS	PASS
Properties after heat aging ASTM D3045, 56 days at 176°F Breaking strength, % retained Elongation reinf., % retained	90 min 90 min	90 min 90 min	90 min 90 min	90 min 90 min
Air Permeance , ASTM E2178	No requirement	PASS	PASS	PASS

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.

VersiFlex PVC Membrane

Radiative Properties for Cool Roof Rating Council (CRRC) and LEED

Physical Property	Test Method	White PVC	Tan PVC	Gray PVC	Light Gray PVC	Slate Gray PVC
CRRC - Initial Solar Reflectance	ASTM C1549	0.87	0.72	0.59	0.74	N/A
CRRC - Solar Reflectance after 3 years	ASTM C1549 (uncleaned)	0.70	0.56	0.49	0.59	N/A
CRRC - Initial Thermal Emittance	ASTM C1371	0.89	0.87	0.89	0.88	N/A
CRRC - Thermal Emittance after 3 years	ASTM C1371 (uncleaned)	0.88	0.87	0.89	0.89	N/A
Solar Reflective Index (SRI)	ASTM E1980	110	89	70	91	N/A
Solar Reflective Index (SRI) SRI after 3 years	ASTM E1980	86	65	57	70	N/A

LEED Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI), Initial	White: 110, Tan: 89, Gray: 70, Light Gray: 91, Slate Gray: N/A



A SINGLE SOURCE FOR SINGLE-PLY ROOFING

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CAV-GRIP® PVC Adhesive



Overview

Versico's revolutionary CAV-GRIP PVC is a low-VOC (<200 g/L), California-compliant, spray applied aerosol contact adhesive used for a variety of applications: adhering PVC bareback membranes to a variety of horizontal substrates and vertical walls (**cannot be used with any KEE or KEE HP bareback membranes**) and adhering VersiFleece® membranes to vertical walls.

CAV-GRIP PVC's low-VOC formula promotes tenacious adhesion and quick drying in a wide range of temperatures. Applied using a self-contained spray system that provides quick and even coverage, this system requires minimal cleanup or maintenance. **Please note: cylinder, hoses, and gun are each sold separately.**

Features and Benefits

- Excellent option for adhering bareback PVC to horizontal and vertical surfaces and all VersiFleece membranes to vertical surfaces
- Can be used in temperatures as low as 35°F (2°C)
- Easy setup with convenient spray application
- Easy cleanup
- Low-odor and low-VOC
- Can be used as a primer for VapAir Seal™ 725TR (no FM approvals for this application)

Labor Saving Features and Benefits:

- Quick application with spray gun
- Fast flash-off time
- No stirring
- Up to 60% labor savings compared to traditional bonding adhesive



Acceptable Membranes and Applications

Membrane	Walls	Field
PVC (bareback)	✓	✓
VersiFleece (EPDM, TPO, PVC, KEE HP)	✓	✗
TPO (bareback)	✗	✗
EPDM (bareback)	✗	✗
KEE/KEE HP (bareback)	✗	✗

Application

1. Connect spray gun to hose and connect hose to cylinder. Open valve on cylinder to check fittings for leaks. Keep cylinder valve open to maintain pressure in the hose/spray gun when not in use.
2. CAV-GRIP PVC can be applied at ambient temperatures of 35°F (1°C) and above. Propellant in cylinders must be kept above 70°F (21°C) for the product to spray properly. Utilize power-heated blankets and hot boxes when necessary. Ensure that cylinder temperatures stay below 110°F (43°C). Substrate shall be clean, dry, and free of debris and contaminants.
3. For applications taking place in ambient temperatures below 70°F, store cylinders in heated space and move to project area during application. Cylinders must be kept warm on the jobsite. Dispense product from cylinder while it is still warm. When product in cylinder becomes too cold, it will begin to spit rather than spray. If this occurs, swap cold cylinder for warmer one and return cold cylinder to heated area. When changing cylinder, close the valve on the cylinder and depressurize the hose. Remove the hose and attach to the new cylinder. Open valve and do a test spray.
4. Apply CAV-GRIP PVC in an even coat to substrate (refer to the drawing on the page 3), keeping the spray tip approximately 12" (30.5 cm) away and perpendicular to the surface during spray. Avoid high thickness buildup.



CAV-GRIP PVC Adhesive



An Ideal Re-Roofing Solution

Convenience: Quick spray application with a fast flash-off time

Value: Up to 60% labor savings compared to traditional bonding adhesive

Performance: For use on both horizontal and vertical surfaces in temperatures down to 35°F

5. Allow CAV-GRIP PVC to flash-off (roughly 5-7 minutes depending upon ambient temperature). Once flashed off, adhesive will have little to no tackiness and provides an application window of roughly 15-20 minutes depending upon ambient temperature. Limit application of CAV-GRIP PVC to surfaces that will be covered with membrane.

Vertical Applications of Standard PVC or Any VersiFleece Membrane:

Acceptable substrates include: Versico's VersiCore® Polyiso, SecurShield® Polyiso, SecurShield HD, SecurShield HD Plus, DensDeck® Prime, SECUROCK®, OSB, plywood, metal, and clean concrete block. Residual asphalt is an acceptable substrate for VersiFleece membranes only. To improve adhesion and reduce the potential for asphalt bleed-through on vertical surfaces with residual asphalt, apply an initial "sealing" base coat of CAV-GRIP PVC and allow to flash off properly; then, apply a secondary coating of CAV-GRIP PVC to the vertical surface.

Contact Versico before using on substrates other than those listed above.

There are no height restrictions when using CAV-GRIP PVC for vertical applications if the appropriate membrane terminations are utilized.

1. Spray wall and back of the membrane, utilizing a 50% overlapping spray pattern.
2. Do not apply adhesive to splice areas to be hot-air welded.
3. Allow adhesive to flash off with little to no tackiness; it should not transfer to fingers when touched.
4. Mate membrane with the wall from the center of the sheet toward the edges, smoothing by hand.
5. Broom the membrane with a soft-bristle broom.
6. Roll in with a hand roller.

Horizontal Application of Bareback PVC Membranes

Acceptable substrates include: Versico's VersiCore Polyiso, SecurShield Polyiso, SecurShield HD, SecurShield HD Plus, DensDeck Prime, SECUROCK, OSB, and plywood. Please see Versico's Specifications for a complete list of acceptable substrates.

The surface on or against which adhesive is to be applied shall be clean, smooth, dry, free of films, sharp edges, loose and foreign materials, oil, and grease. Depressions greater than 1/4" (6 mm) should be feathered using epoxy, mortar, or other approved patching material. All sharp projections shall be removed by sweeping, blowing, or vacuum cleaning.

Application shall be continuous and uniform, avoiding globs or puddles.

1. Spray substrate and back of the membrane with enough overlap to ensure 100% coverage (2-3" of overlap).
2. Do not apply adhesive to splice areas to be hot-air welded.
3. Allow adhesive to flash off with little to no tackiness; it should not transfer to fingers when touched.
4. Roll the membrane onto the adhesive-coated substrate while avoiding wrinkles. Immediately brush down the bonded portion of the sheet with a soft-bristle push broom, and then roll the membrane with a 150-lb weighted segmented roller to achieve maximum contact.

CLEANUP: Versico's CAV-GRIP PVC UN-TACK™ safe solvent or mineral spirits can be used to clean tools and surfaces. If the spray gun valve becomes stuck, attach hose and spray gun to cylinder of PVC UN-TACK and trigger spray gun repeatedly until operation is smooth. If the spray gun is clogged, soaking the brass fitting in PVC UN-TACK is helpful. For application procedures and precautions please see the low-VOC UN-TACK Adhesive Remover and Cleaner Technical Data Bulletin.

STORAGE: Store cylinders in protected, conditioned space with temperature maintained above 70°F (21°C). Do not store or heat cylinders where temperatures reach 110°F (43°C) or higher. Contents are flammable. Store in accordance with local, state, and federal regulations. Keep cylinder valve open to maintain pressure in the hose and spray gun. Periodically spray in a safe manner to help prevent possible clogging. Keep spray gun trigger locked when not in use. Flush gun and hose with PVC UN-TACK for long-term storage beyond 30 days

CAV-GRIP PVC Adhesive

RETURN INSTRUCTIONS FOR LARGE CYLINDERS:.

1. A minimum of 12 empty cylinders are required for a free return.
2. Arrange 12 empty Large cylinders upright on a pallet.
3. Secure and shrink-wrap the entire pallet (including cylinders) to ensure safe shipment.
4. Call the 1-800 number listed on the cylinder to schedule the pick-up of the pallet.
5. Please note: A forklift or loading dock is the preferred method to load the pallet onto the truck. If a forklift or loading dock is not available, discuss alternative methods when arranging the return.

CYLINDER DISPOSAL: When all adhesive in the cylinder has been used, close cylinder valve and evacuate hose and spray gun before disconnecting hose from cylinder. If hose is not to be connected to a new cylinder immediately, do not evacuate hose and spray gun to ensure material does not harden in spray gun and hose. Clean up adhesive residue, spray gun, and spray tips with PVC UN-TACK or mineral spirits. In most areas, the empty cylinder can be disposed as an aerosol can or recycled as scrap metal. If disposal is not allowed in your area, contact your distributor for disposal arrangements. Federal law forbids transportation if refilled.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

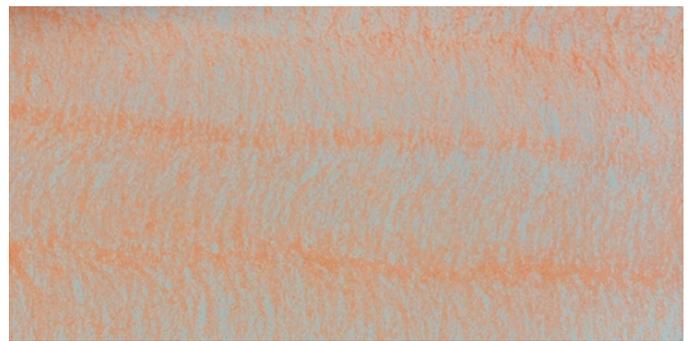
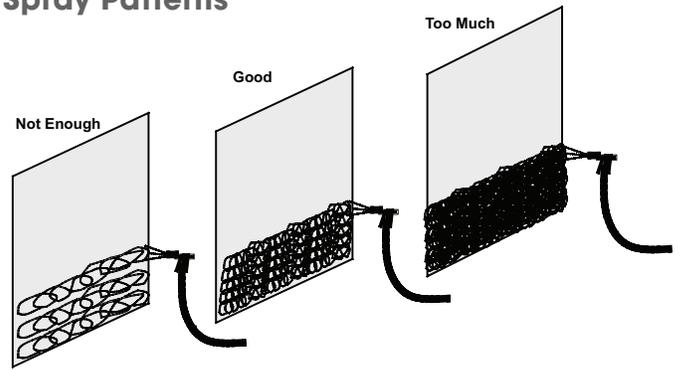
Precautions

CAV-GRIP PVC is a flammable liquid propellant and vapor. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from the material handling point and flashback. Keep away from open flame. Use with adequate ventilation. Avoid inhalation of spray mist or vapors. Harmful or fatal if swallowed. May cause eye irritation. Keep out of reach of children.

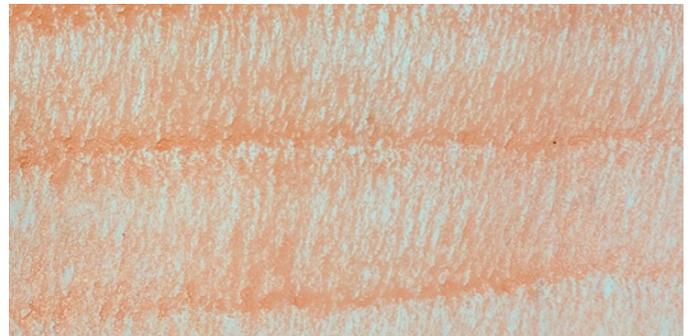
Review Safety Data Sheet for complete safety information prior to use. Use of goggles and gloves is required. Standard aerosol cylinders are not refillable and when empty are harmless and disposable. Dispose according to local codes and laws. Read safety precautions and warnings on cylinder label. Wear gloves and goggles before using this product. Do not aim spray gun at people or animals at any time. PPE Gloves must be used while handling material.

For industrial professional use only.

Spray Patterns



Proper Coverage on Membrane



Proper Coverage on Insulation

CAV-GRIP PVC Adhesive

Typical Properties and Characteristics

Physical Property	Typical Value
Color	Burnt Orange
Consistency	Aerosol Spray
Spray Pattern	Variable Web
Odor	Low
Base	Synthetic Rubber/Resin Blend
Solvent	Acetone
Coverage Rate - Standard Cylinder	2-Sided Adhesive - Walls – 400 ft ² * 2-Sided Adhesive - Field – 750 ft ² * 1-Sided Primer - 1,500 – 2,000 ft ² *
Coverage Rate - Large Cylinder	2-Sided Adhesive - Walls – 800 ft ² * 2-Sided Adhesive - Field – 1,500 ft ² * 1-Sided Primer - 3,000 – 4,000 ft ² *
Flash-Off Time	5 minutes**
Adhesion	Excellent
Service Temperature	-30°F to 200°F (-34°C to 93°C)
Flammability	Flammable when wet. Non-flammable when dry.
Water Resistance	Excellent
Mildew Resistance	Excellent
Shelf Life	12 months (unopened container)

* Approximate Coverage

** Or more depending on climate conditions

Packaging

Product	Size/Weight	Part Number
CAV-GRIP PVC - Standard	Aerosol Cylinder: 12" diameter x 18" tall / 41lbs.	336152
CAV-GRIP PVC - Large (returnable cylinder)	Aerosol Cylinder: 12" diameter x 30" tall / 90 lbs.	336347
CAV-GRIP PVC UN-TACK	Aerosol Cylinder: 7.5" diameter x 14.5" tall / 16 lbs.	336090
6' Hose	6' Length	304302
12' Hose	12' Length	304303
18' Hose	18' Length	304304
Spray Gun w/ 24" Extension	–	330912
Spray Gun Adjustable	–	307490
Replacement Tips	–	332774

LEED® Information

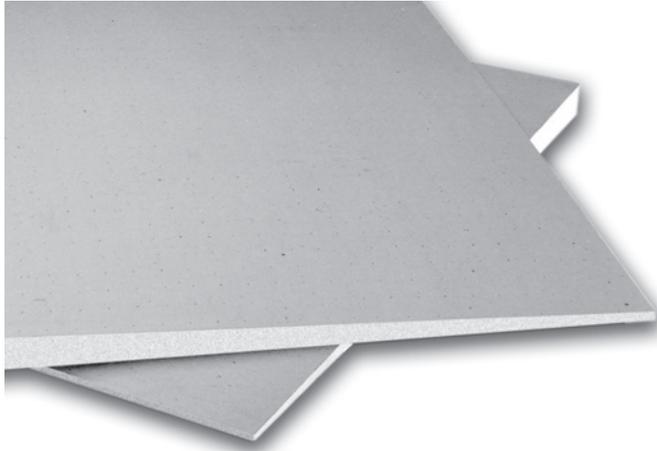
Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Lynchburg, VA
VOC	198 g/L



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VersiCore® Tapered Polyiso



Overview

VersiCore Tapered is a sloped rigid roof insulation panel composed of a closed cell polyisocyanurate foam core bonded to glass reinforced felt (GRF) facers.

Features and Benefits

- VersiCore Tapered polyiso insulation provides the highest R-value per inch of commercially available insulation products
- Environmentally friendly construction with 0% ozone depleting components and CFC free
- Approved for direct application to steel decks

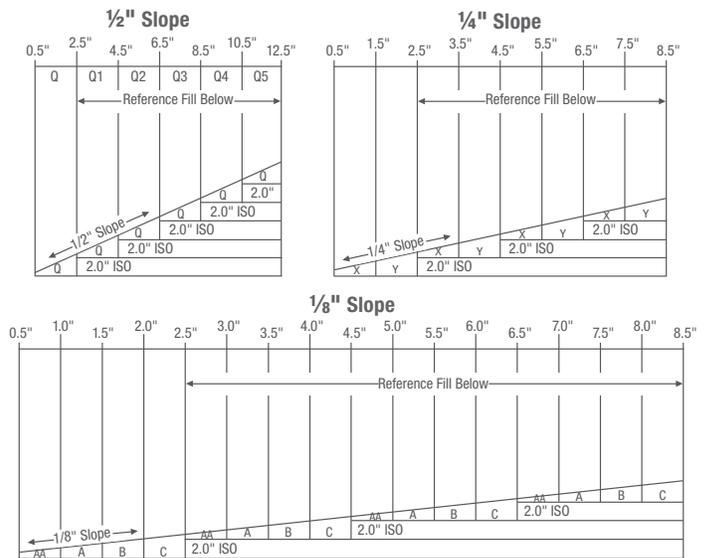
Panel Characteristics

- Available in 4' x 4' (1220 mm x 1220 mm) in thickness of 1/2" (12 mm) minimum to 4.5" (115 mm) maximum
- Available slopes (per foot):
 - 1/8" (3 mm)
 - 1/4" (6 mm)
 - 3/8" (10 mm)
 - 1/2" (12 mm)

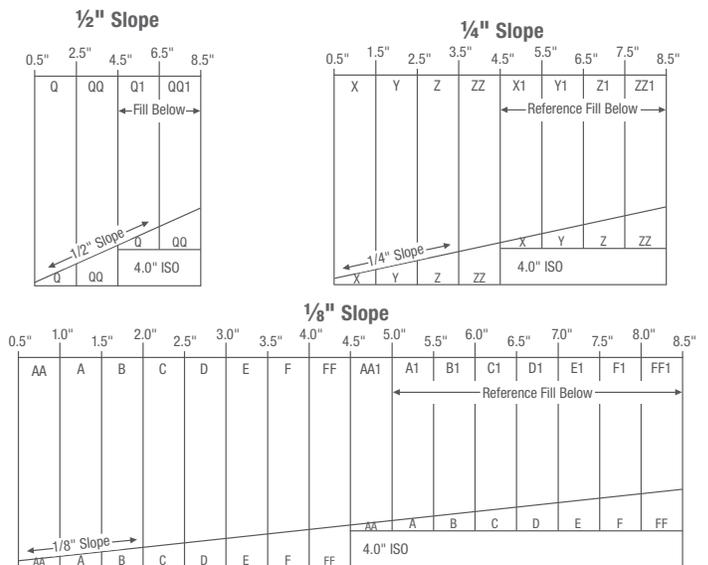
Applications

Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)

Standard Panel Profiles



Extended Panel Profiles



VersiCore Tapered Polyiso

Installation

Ballasted Single-Ply Systems

Each VersiCore Tapered panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Mechanically Attached & Fully Adhered Single-Ply Systems

Secure each VersiCore Tapered panel to the roof deck with Versico's Flexible DASH™ adhesive or the appropriate plate and fastener. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Codes and Approvals

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)
- International Building Code (IBC) Section 2603
- UL Standard 790, 263 and 1256: Component of Class A Roof Systems (refer to UL Roof Materials' system directory)
- CAN/ULC S704, Type 2 & 3, Class 2
- Third-party certification with the PIMA QualityMark™ for Long-Term Thermal Resistance (LTTR) values
- FM® Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNav)
- FLORIDA BUILDING CODE APPROVAL FL#1296
- MIAMI-DADE COUNTY, FLORIDA NOA NO: 04-1018.01

Sustainable Attributes

Versico's focus has always been innovation - Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- Highest R-value per inch providing maximum energy savings and CO2 emissions avoidance
- PIMA QualityMark™ Certification Program participant for Long-Term Thermal R-values (LTTR)
- CDPH Compliant for maximum allowable concentrations of target VOCs

- Versico Polyiso Roof Insulation and HD Cover Board EPDs available
- Contributes to LEED and Green Globes certification requirements
- End-of-life jobsite disposal options are available for re-use/re-purposing
- Zero ozone-depleting components, HFC- and HCFC-free formulation

Precautions

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof-covering material. Versico will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the jobsite or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice. Call Versico for more specific details, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation.

Typical Properties and Characteristics

Property	Test Method	Value
Compressive Strength	ASTM D1621 ASTM 1289	20 psi minimum (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E96 12.10	<1 perm (57.5ng/(Pa*s*m²))
Water Absorption	ASTM C209	<1% volume
Service Temperature		-100° to 250°F (-73°C to 122°C)

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.



Foamed plastic as roof deck construction material with resistance to an internal fire exposure only for use in construction no.(s) 120 and 123. See UL Directory of Products Certified for Canada and UL Roofing Materials and Systems Directory. 99DL.



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VersiCore® Polyiso



Overview

VersiCore is a rigid-roof insulation panel composed of a closed-cell polyisocyanurate foam core bonded on each side to glass-reinforced felt (GRF). ReadyFlash® Technology is a standard feature of VersiCore Polyiso that allows the contractor to manipulate flash-off times by choosing which side of the insulation board to apply membrane adhesives. ReadyFlash features a dark glass-reinforced felt (GRF) on one side of the insulation board and a light glass-reinforced felt on the other.

ReadyFlash
TECHNOLOGY

- Increases surface temperature of the dark facer up to 25°F above ambient temperature and provides up to 30% faster adhesive flash-off.
- Decreases surface temperature of the light facer up to 5°F below ambient temperature.

Features and Benefits

- VersiCore polyiso insulation provides the highest R-value per inch of commercially available insulation products
- Zero ozone-depleting components, HFC- and HCFC-free formulation
- Approved for direct application to steel decks

Panel Characteristics

- Available in 4' x 4' (1220 mm x 1220 mm) and 4' x 8' (1220 mm x 2440 mm) panels in thickness of 0.5" (13 mm) to 4.5" (115 mm)
- Available in 4' x 12' (1220 mm x 3660 mm) panels in the following thickness: 1.5", 1.75", 2.0", 2.2", 2.5", 2.6", 3.0", 3.3", and 3.5"

Applications

- Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)



Sustainable Attributes

Versico Roofing Systems' focus has always been innovation – Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- Zero ozone-depleting components, HFC- and HCFC-free formulation
- CDPH Compliant for maximum allowable concentrations of target VOCs
- Up to 56.9% recycled content by weight (36.6% post-consumer/20.3% pre-consumer)
- Contributes to LEED® and Green Globes certification requirements
- End-of-life jobsite disposal options available for re-use/re-purposing
- Versico Polyiso Roof Insulation and HD Cover Board EPDs available
- PIMA Quality Mark^{CM} Certification Program participant for Long-Term Thermal R-values (LTTR)
- Highest R-value per inch providing maximum energy savings and CO₂ emissions avoidance

Polyiso Eco Ready (Optional)

- 5% bio-content option available (for 2.0" and 2.6" thicknesses)
- Contributes to carbon reduction initiatives via mass balance approach under ISCC PLUS compliance

Installation

Ballasted Single-Ply Systems

Each VersiCore panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Mechanically Attached Single-Ply Systems

VersiCore panels must be secured to the roof deck with fasteners and plates (appropriate to the deck type). Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Fully Adhered Single-Ply Systems

VersiCore panels must be secured to the roof deck with fasteners and plates (appropriate to deck type). Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

VersiCore 4' x 8' and 4' x 12' panels can be secured to the roof deck with Versico's Flexible DASH™ Adhesive, either full coverage or bead spacing.

VersiCore 4' x 4' panels may be adhered to prepared concrete deck with a full mopping of Type III or IV asphalt.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

VersiCore Polyiso

Codes and Compliances

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)
- International Building Code (IBC) Section 2603
- UL Standard 790, 263 and 1256: Component of Class A Roof Systems (refer to UL Roof Materials' system directory)
- FM® Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNavSM)
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1418
- Third-party certification with the PIMA QualityMark^{CM} for Long-Term Thermal Resistance (LTTR) values
- CAN/ULC S704, Type 2, Class 3 (20 psi), Type 3, Class 3 (25 psi)
- Florida Building Code Approval
- CDPH compliant for maximum allowable concentrations of target VOCs

Precautions

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof-covering material. Protect installed product from excessive foot traffic. Versico will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice. Call Versico for more specific details, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation.

Typical Properties and Characteristics

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621	20 psi* minimum (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E96	<1 perm (57.5 ng/(Pa*s*m ²))
Water Absorption	C1763	<1% volume

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.

*Also available in 25 psi minimum, Grade 3

VersiCore Polyiso Thermal Values

Thickness (inches)	LTTR R-value	Thickness (inches)	LTTR R-value
0.5	2.8	2.75	15.9
0.75	4.2	2.8	16.2
1	5.7	2.9	16.8
1.1	6.3	*3	17.4
1.2	6.8	3.1	18
1.25	7.1	3.2	18.6
1.3	7.4	3.25	18.9
1.4	8	*3.3	19.2
*1.5	8.6	3.4	19.9
1.6	9.1	*3.5	20.5
1.7	9.7	3.6	21.1
*1.75	10	3.7	21.7
1.8	10.3	3.75	22
1.9	10.8	3.8	22.3
*2	11.4	3.9	23
2.1	12	4	23.6
*2.2	12.6	4.1	24.2
2.25	12.9	4.2	24.9
2.3	13.2	4.25	25.2
2.4	13.8	4.3	25.5
*2.5	14.4	4.4	26.1
*2.6	15	4.5	26.8
2.7	15.6	-	-

Flute Spanability is 2 3/8" for 1.4" or thickness or smaller. Flute Spanability is 4 3/8" for 1.5" thickness or greater.

*4' x 12' offering is available in this thickness.



Foamed plastic as roof deck construction material with resistance to an internal fire exposure only for use in construction no.(s) 120 and 123. See UL Directory of Products Certified for Canada and UL Roofing Materials and Systems Directory. 99DL.



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VersiFlex™ PVC Low-VOC Bonding Adhesive



Overview

Versico's PVC Low-VOC Bonding Adhesive is a high-strength solvent-based contact adhesive that allows bonding of PVC and KEE membranes to various porous and non-porous substrates. It is specially formulated using a blend of VOC-exempt and nonexempt solvents to be in compliance with the state of California Clean Air Act of 1988 (updated in 1997) and as further regulated by California's Air Quality Control Districts listing VOC limitations. This product also meets the <250 gpl VOC content requirements of the OTC Model Rule for Single-Ply Roofing Adhesives.

Features and Benefits

- High-strength adhesive that allows quick bonding
- Can be easily applied with a medium nap roller
- Provides excellent adhesion between various substrates and PVC and/or KEE membranes

Mixing

Stir thoroughly until the adhesive is uniform in color. Minimum 5 minutes stirring is recommended.

Coverage Rate

60 ft² (5.6² m) per gallon finished surface. Coverage rates are average and may vary due to conditions on the jobsite. Porous surfaces and substrates may require more bonding adhesive than the typical coverage rate.

Application

1. The surface on or against which adhesive is to be applied shall be clean, smooth, dry, free of fins, sharp edges, loose and foreign materials, oil and grease. Depressions greater than ¼" (6 mm) should be feathered using epoxy, mortar or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning
2. After thorough stirring (minimum 5 minutes), apply PVC Low-VOC Bonding Adhesive to substrate and membrane using a 9" (229 mm) medium nap roller. Application shall be continuous and uniform, avoiding globs or puddles. Once flashed off, adhesive will have little to no tackiness and provides an application window of roughly 15-20 minutes depending upon ambient temperature. The membrane and substrate will be dry (non-tacky) to the finger touch. Any coated area which has been exposed to rain should be allowed to dry and then recoated. Do not apply adhesive to splice areas to be hot-air welded.
3. Roll the membrane onto the adhesive-coated substrate while avoiding wrinkles. Immediately brush down the bonded portion of the sheet with a soft-bristle push broom or a clean dry roller applicator to achieve maximum contact.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

Precautions

- Review the applicable Safety Data Sheet for complete safety information prior to use.
- PVC Low-VOC Bonding Adhesive is EXTREMELY FLAMMABLE. It contains solvents that are dangerous fire and explosion hazards when exposed to heat, flame or sparks. Do not smoke while applying. Do not use in a confined or unventilated area. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point. All containers should be grounded when material is transferred from one container to another. A red caution label is required when shipping. A fire extinguisher should be available. In case of fire, use water spray, foam, dry chemical or carbon dioxide. Do not use a solid stream of water because it can scatter and spread the fire.

VersiFlex PVC Low-VOC Bonding Adhesive

- Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. If inhaled, remove to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately. During application, efforts must be made to prevent fumes from entering the building via air ventilation ducts. Do not place open containers or mix adhesive near fresh air intake units. When possible, shut down or seal off the closest units.
- If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately.
- Avoid contact with eyes. Safety glasses or goggles are recommended. 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. Wash hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water. Contact physician if irritation persists.

Note: Permeation-resistant gloves (that meet ANSI/ISEA 105-2005) are recommended to be worn when using this product to protect hands from irritating ingredients.
- Do not thin PVC Low-VOC Bonding Adhesive. Thinning will affect performance. Excessively thick or gelled material should be discarded.
- Jobsite storage in excess of 90°F (32°C) may affect product shelf life. Should the PVC Low-VOC Bonding Adhesive be stored at temperatures lower than 60°F (15°C), restore to room temperature prior to use.
- Opened containers of PVC Low-VOC Bonding Adhesive should be used within 48 hours. Adhesives will begin to thicken after this point, making it difficult and eventually impossible to control applied thickness. In hot weather, do not leave sealed containers on roof for prolonged periods of time. In cold weather, keep material at room temperature until ready to use. Stir adhesive occasionally while using.
- Adhesive must be allowed to dry thoroughly. If membrane is mated with the substrate prior to the adhesive being dry, blistering will occur and will not subside over time.
- KEEP OUT OF REACH OF CHILDREN.

Typical Properties and Characteristics

Physical Property	Test Method
Base	Synthetic Rubber
Color	Pale yellow to orange to amber
Solids	23.6 – 29.6%
Flash Point	-4°F (-20°C) SETA
Brookfield Viscosity	1500 – 4500 Centipoises
Average Net Weight	6.9 – 7.7 lbs/gal (0.8 – 0.9 Kg/l)
Packaging	5-gal pail
Shelf Life	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%
VOC Content	< 250 g/l
Manufacturing Location	Carlisle, PA



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HPV Fasteners



Overview

Versico's HPV Fastener is used with various Versico fastening plates to secure membrane, insulation, and Quick-Applied (QA) Reinforced Termination Strip (RTS) to a variety of substrates. Specially designed for securement of membrane on Versico's VersiGard® Reinforced EPDM mechanically attached systems, Versico's HPV Fasteners are compatible with 22-gauge and heavier steel, CDX plywood, and wood plank deck types. The HPV Fasteners are designed to offer a good combination of pull-out, back-out, and corrosion resistance with excellent driving performance.

Features and Benefits

- Buttnut thread design and wide surface contact provide increased pull-out and back-out resistance
- Can be used on wood (minimum 1½" [12 mm] CDX plywood) and steel decks (22-gauge [0.76 mm] or heavier)
- Mini drill-point is designed to maximize installation efficiency
- Excellent corrosion resistance, surpassing the FM 4470 corrosion test

Installation

No pre-drilling is necessary for wood and steel decks. Simply insert the HPV Fastener through an approved Versico plate and install with a standard clutch drive electric screw gun (0–2,500 rpm). Optimum fastener performance is achieved when the fastener is installed perpendicular to the deck and into the top flutes of a steel deck.

REVIEW VERSICO'S SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

1. Eye protection is recommended during installation.
2. Use care to avoid over-driving the fastener.

Typical Properties and Characteristics

Size – Inches (mm)	Weight/Cartron (Kg)	Thread Length	Packaging Fasteners (ctn)
1¼ (30)	12.4 lbs (5.62)	Full	1,000
2 (50.8)	18.25 lbs (8.27)	Full	1,000
3 (76.2)	24.85 lbs (11.27)	Full	1,000
4 (101.6)	32.2 lbs (14.60)	Full	1,000
5 (130)	39.4 lbs (17.87)	4 (100)	1,000
6 (150)	46.9 lbs (21.27)	4 (100)	1,000
7 (175)	27.7 lbs (12.56)	4 (100)	500
8 (200)	31.5 lbs (14.28)	4 (100)	500
9 (225)	35.8 lbs (16.23)	4 (100)	500
10 (250)	39.8 lbs (18.05)	4 (100)	500
11 (280)	42.6 lbs (19.32)	4 (100)	500
12 (300)	46.6 lbs (21.13)	4 (100)	500
13 (330)*	24.7 lbs (11.20)	4 (100)	250
14 (355)*	26.5 lbs (12.02)	4 (100)	250
15 (380)*	28.5 lbs (12.92)	4 (100)	250

Please note: 13", 14", and 15" sizes are available in cardboard cartons only. 2"–12" available in stainless steel.

	Steel Deck 22-Gauge or Heavier	Wood Deck 1½" Plywood
Minimum Penetration	¾" (19 mm)	1" (25 mm)
Maximum Penetration	4" (100 mm)	4" (100 mm)
Typical Static Back-out	15.1 in lbs (1.7 N-m)	N/A
Typical Drill Times	1.5 seconds (18-gauge deck)	N/A

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.

Insulation Fastening Plates



Typical Properties and Characteristics

Property	Value
Size	3" Round
Weight/Carton	37 lbs.
Quantity	1000 / Carton
Material	Galvalume-Coated Steel
Thickness	26 Gauge
Corrosion Resistance	Galvalume-Coated Steel meets the FM 4470 test

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.

Overview

Versico Insulation Fastening Plates are specifically designed for attachment of insulation and cover boards under Versico roofing systems. Insulation Fastening Plates are stamped from Galvalume®-coated steel for long-term protection against corrosion. The round design provides an even distribution of loads and eliminates sharp corners that can damage insulation.

Installation

1. Position insulation plates per Versico Specifications.
2. Secure insulation plates using the appropriate Versico fastener.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- Eye protection is recommended during drilling and installation of fasteners.



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SUBSTITUTION REQUEST

Project Winnebago County Public Safety Substitution Request Number: _____
Rockford From: Jason Smith
 To _____ Date: 2/27/2026
 _____ A/E Project Number _____
 Re: RFA for Versico Products Contract For: _____

Specification Title: Thermoplastic Polyolefin (TPO) Membrane Roofing Description: Sure Weld TPO 60mil White
 Section: 07 5423 Page: 3 Article/Paragraph: 2.03/ A

Proposed Substitution: Versiweld TPO 60 Mil
 Manufacturer: Versico LLC Address: Carlisle, PA. Phone: 1-800-992-7663
 Trade Name: White 60 Mil TPO Model No.: Versiweld 60mil TPO

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
 Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

- The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
 - Same warranty will be furnished for proposed substitution as for specified product.
 - Same maintenance service and source of replacement parts, as applicable, is available.
 - Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
 - Proposed substitution does not affect dimensions and functional clearances.

Submitted by: Jason Smith
 Signed by: _____
 Firm: Roofing Reps Inc. Versico sales consultants
 Address: 5210 20th Ave SW
 Telephone: (Cell) 319-533-5960 / Email Jason.Smith@roofingrepresentatives.com

A/E REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01330.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____



Winnebago Public Safety 07 5423 TPO

Winnebago Public Safety 07 5423 TPO

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January 1, 2024

Re: Versico Roofing Systems & Carlisle Construction Materials (CCM)

To Whom It May Concern,

Please accept this letter as a clarification of the relationship between Versico Roofing Systems and Carlisle Construction Materials (CCM). I am writing so that you might be able to make an informed decision on your roofing needs. In my capacity at Carlisle Construction Materials, I am responsible for the sales of both of CCM's roofing brands, Carlisle SynTec Systems and Versico Roofing Systems.

Versico is a division of Carlisle Construction Materials, LLC (CCM). As such, its roofing systems are inspected by CCM employees, and its warranties are backed by CCM. Carlisle Construction Materials does not back the roofing system warranties of any systems other than those marketed under the Carlisle SynTec or Versico names. Versico's materials are manufactured by CCM and meet the same technical specifications as Carlisle SynTec's materials.

CCM elects to market two brands through separate representative channels in order to reach a wider segment of the commercial roofing market. From a product and installation quality perspective, the Carlisle SynTec and Versico brands can be considered as equals.

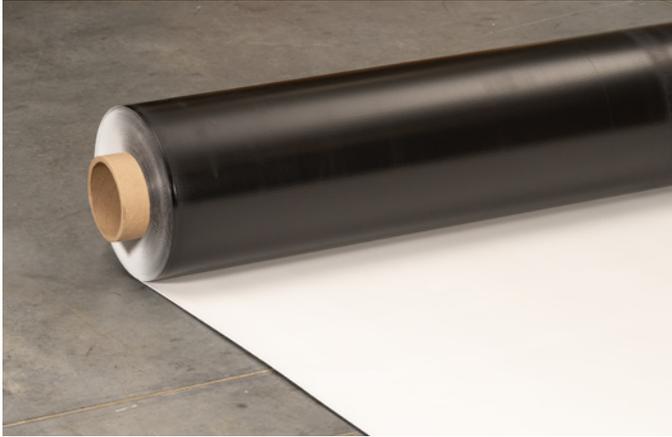
I trust that this will clarify any questions you might have. If not, please feel free to call me at (800) 479-6832.

Sincerely,

A handwritten signature in black ink, appearing to read "Joe Stassi", with a stylized flourish at the end.

Joe Stassi
Executive Vice President, Commercial Roofing
Carlisle Construction Materials

VersiWeld® TPO Reinforced Membrane



Overview

Versico's VersiWeld TPO reinforced membrane is a premium, heat-weldable, single-ply thermoplastic polyolefin (TPO) sheet designed for new roof construction and re-roofing applications. VersiWeld High Slope (HS) membrane is formulated with additional flame retardant for higher-slope fire code approvals. VersiWeld Plus is 80 mils (2.03 mm) thick for significantly higher strength and weatherability.

VersiWeld TPO membranes use advanced polymerization technology that combines the flexibility of ethylene-propylene (EP) rubber with the heat weldability of polypropylene. All VersiWeld TPO membranes include OctaGuard XT™, an industry-leading, state-of-the-art weathering package. OctaGuard XT technology enables VersiWeld TPO to withstand the extreme weatherability testing that is intended to simulate exposure to severe climates.

Physical properties of the membrane are enhanced by a strong polyester fabric that is encapsulated between the TPO-based top and bottom plies. The combination of the fabric and TPO plies provides high breaking and tearing strength, as well as excellent puncture resistance. The relatively smooth surface of the membrane produces a total surface fusion weld that results in a consistent, watertight, monolithic roof assembly. The membrane is environmentally friendly and safe to install.

Features and Benefits

- Living Building Challenge "Red List Free" – Declare Label
- VersiWeld TPO is available in 4-, and 6-ft (121.92 cm and 182.88 cm) perimeter sheets and 8-, 10-, 12-, and 16-ft (243.84 cm, 304.80 cm, 365.76 cm, and 487.68 cm) VersiWeld field sheets*
- VersiWeld High Slope TPO is available in 5', 10', and 16' (152.40 cm, 304.80 cm, and 487.68 cm) sheets
- HS formula opens assemblies for slopes greater than ½" over combustible and non-combustible deck types where standard TPO is restricted
- Outstanding puncture resistance and excellent fire resistant assemblies
- Environmentally friendly and stable formulation
- Excellent resistance to impact and low temperatures
- Excellent chemical resistance to acids, bases and restaurant exhaust emissions
- UL 2218 Class 4 hail rating
- Manufactured with non-halogenated flame retardants
- Exceptional resistance to heat, solar UV, ozone and oxidation
- Manufactured using a hot-melt extrusion process for complete scrim encapsulation
- Enhanced with the OctaGuard XT weathering package
- Standard Colors:



White Gray Tan

- Special Colors:



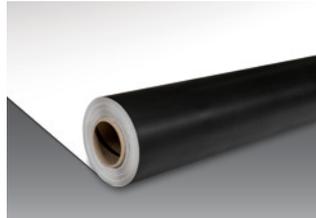
Slate Gray Med Bronze Terra Cotta Patina Green Rock Brown

* VersiWeld HS Special Color TPO membranes are available in 5'- and 10'-wide sheets. Refer to Versico's VersiWeld TPO Color Palette Sell Sheet for details. VersiWeld 80-mil in special colors are limited to warranties up to 20 years.

VersiWeld TPO Reinforced Membrane

Wider is Better

Versico's 16-foot VersiWeld TPO delivers a leap in productivity on adhered and induction welded roofs by cutting down on the number of rolls needed and dramatically reducing the number of seams on the roof.



With fewer rolls to load, stage, and kick out, and fewer seams to weld, contractors can save significant time on each project, moving on to the next one sooner.

16-Foot TPO Benefits

- Fewer rolls to load and stage on a job saves crane time and labor at the beginning of each project
- Fewer rolls to position, kick-out, and align during installation saves labor
- Up to 60% fewer seams vs. 10-foot TPO
- Fewer seams to weld, probe, and inspect, saving considerable time during installation
- Fewer T-joint patches to install on each roof
- Less waste and trash from packaging
- Less time spent on each project, allowing contractors to complete more roofs and grow their business
- Available in High Slope formulation in white and gray colors



Sustainable Attributes

Versico Roofing Systems' focus has always been innovation – Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- Up to 10% pre-consumer recycled content
- Fully recyclable when used in mechanically attached systems
- 3rd-party verified Environmental Product Declaration available
- NSF P151 certification for rainwater catchment**

- California Title 24 compliant***
- Free of Living Building Challenge red list chemicals

** White only, produced in Tooele, UT and Carlisle, PA

*** White and Tan only

Installation

VersiWeld TPO roofing systems are quick to install, as minimal labor and few components are required. TPO systems are installed using an Automatic Heat Welder, making sheet welding fast, clean, consistent, and easy to learn, while reducing strain on the roofing technician.

Fully-Adhered – membrane is adhered to a suitable substrate utilizing an appropriate bonding adhesive

Mechanically Attached – membrane is attached to the roof deck over a suitable substrate utilizing plates and fasteners which are overlapped with membrane

Induction-Welded – membrane is attached over a suitable substrate via an induction welding tool being placed over the membrane where a fastened TPO induction welding plate is located to weld the two components together

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- Sunglasses that filter out ultraviolet light are strongly recommended, as tan and white surfaces are highly reflective. Roofing technicians should dress appropriately and wear sunscreen.
- Surfaces may become slippery due to frost and ice buildup. Exercise caution during cold conditions to prevent falls. Exercise caution when walking on wet membrane. Membranes may be slippery when wet.
- Care must be exercised when working close to a roof edge when the surrounding area is snow-covered, as the roof edge may not be clearly visible.
- Use proper stacking procedures to ensure sufficient stability of the rolls.
- Store membrane in the original undisturbed plastic wrap in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. Membrane that has been exposed to the weather must be prepared with Weathered Membrane Cleaner prior to hot-air welding.
- Take care not to stand or place heavy objects on the edge of folded-over membrane, as this could cause a hard crease in the membrane.
- Maximum sustained temperature not to exceed 160°F (71°C) for TPO membrane.
- Do not use razor blades or other sharp tools to cut the APEEL Protective Film while it is still adhered to the TPO membrane as damage to the underlying membrane may occur. Pull the protective film away from the membrane prior to cutting.



VersiWeld TPO Reinforced Membrane

- Remove APEEL Protective Film by pulling towards the center of the roof. Do not remove the film by pulling towards the roof edge.
- A static electric charge may develop when removing APEEL Protective Film from the surface of the membrane sheet. To avoid the possibility of ignition, lids must be closed on any flammable products and a fire extinguisher should be readily available.
- Color membranes will 'fade' over time mainly due to the ultraviolet portion of sunlight. Since most roof surfaces are exposed to variable sunlight, some areas will be more susceptible to color changes caused by UV fading. Warranties for color membranes do not cover fading of colors.

Extreme Testing for Severe Climates

ASTM Standard D6878 is the material specification for Thermoplastic Polyolefin-Based Sheet Roofing. It covers material property requirements for TPO roof sheeting and includes initial and aged properties after heat and xenon-arc exposure. As stated in the scope of the standard, "the tests and property limits used to characterize the sheet are values intended to ensure minimum quality for the intended purpose." Versico's goal is to produce TPO that delivers maximum performance for the intended purpose of roofing membranes. Maximum performance requires the membrane to far exceed the requirements of ASTM D6878.

Heat Aging accelerates the oxidation rate that roughly doubles for each 18°F (10°C) increase in roof membrane temperature. Oxidation (reaction with oxygen) is one of the primary chemical degradation mechanisms of roofing materials.

Versico Testing - Heat Aging

ASTM Test	ASTM Requirement	VersiWeld Requirement
240°F	32 weeks**	>128 weeks

** Heat exposure comparable to 3,120 weeks (60 years) at 185°F for 8 hours/day.

- Test specimen is a 2" by 6" (50.8 mm by 152.4 mm) piece of 45-mil (1.14 mm) membrane unbacked, placed in circulating hot-air oven.
- Criterion – no visible cracks after bending aged test specimen around 3" (76.2 mm)-diameter mandrel.

Q-Trac testing combines accelerated weathering with real-world conditions using an array of ten mirrors to reflect and concentrate full spectrum sunlight onto membrane test specimens. The Q-Trac device automatically tracks the

sun's path from morning to night. Also, it adjusts to compensate for seasonal changes in the sun's altitude. Eight years in Q-Trac testing is equal to 40 years of real-world exposure. Versico requires its VersiWeld TPO membranes to pass the equivalent of 40 years of exposure in the Q-Trac.

Versico Testing - Q-TRAC

	ASTM D6878 Requirement	VersiWeld Requirements
ASTM Test N/A	N/A	Equivalent of 40 years of exposure

Environmental Cycling subjects the membrane to repeated cycles of heat aging, hot-water immersion, and xenon-arc exposure.

- ASTM requirement – none
- Versico Extreme test*:
 - 10 days heat aging at 240°F (116°C) followed by

Optional APEEL™ Protective Film:

Shield Versico's VersiWeld TPO membrane from dirt and scuffs during installation with APEEL Protective Film. Durable and easy to remove, APEEL eliminates the need for rooftop cleaning upon project completion.



- Ideal for re-roofing, re-cover, and new construction projects
- Simple and easy to remove
- Saves time and money when compared to pressure washing
- Protecting from dirt maintains maximum membrane reflectivity and long-term performance

Installation

Simply order membrane with APEEL, install, and remove the film to reveal a clean, new roof.

- APEEL Protective Film should be removed from within areas that are to be heat-welded together. In areas that do not require heat-welding, the APEEL Protective Film can be left in place for up to 90 days without degrading due to its excellent heat- and UV-resistance .
- When the installation of the entire TPO roofing system is complete, remove and discard the APEEL Protective Film.



VersiWeld TPO Reinforced Membrane

- 5 days water immersion at 158°F (70°C) followed by
- 5,040 kJ/m² (2000 hours at 0.70 W/m² irradiance) xenon-arc exposure

* Test specimen is 2.75" (69.85 mm by 140 mm) by 5.5" piece of membrane with edges sealed.

* Criterion – after 3 complete cycles, test specimens shall remain flexible and not have any cracking under 10x magnification while wrapped around a 3" (76.2 mm)-diameter mandrel.

Supplemental Approvals, Statements and Characteristics:

1. VersiWeld TPO meets or exceeds the requirements of ASTM D6878 Standard Specification for Thermoplastic Polyolefin-Based Sheet Roofing.
2. VersiWeld TPO membranes conform to requirements of the US E.P.A. Toxic Leachate Test (40 CFR part 136) performed by an independent analytical laboratory.
3. VersiWeld TPO was tested for dynamic puncture resistance per ASTM D5635-04 using the most recently modified impact head. 45-mil (1.14 mm) was watertight after an impact energy of 12.5 J (9.2 ft-lbf) and 60-mil (1.52 mm) was watertight after 22.5 J (16.6 ft-lbf). 80-mil (2.03 mm) Plus was watertight after an impact energy of 30.0 J (22.1 ft-lbf).
4. All FM approved assemblies have been tested to pass FM 4470 for foot traffic resistance.

Green Building Information

Pre-Consumer Recycled Content	10%
Post-Consumer Recycled Content	0%
Solar Reflectance Index (SRI)	White – 99 Tan – 86 Gray – 52
Global Warming Potential (GWP)	TPO 45 mils 2.90E+00 TPO 60 mils 3.77E+00 TPO 80 mils 5.28E+00
Volatile Organic Compounds (VOC) Content	N/A
Manufacturing Location(s)	Senatobia, MS Tooele, UT Carlisle, PA
Corporate Sustainability Report (CSR) Availability	Yes
Environmental Product Declaration (EPD) Availability	

Radiative Properties for Cool Roof Rating Council (CRRC) and LEED

	Test Method	White TPO	Tan TPO	Gray TPO
CRRC – Initial solar reflectance	ASTM C1549	0.79	0.71	0.46
CRRC – Solar reflectance after 3 years	ASTM C1549 (uncleaned)	0.70	0.64	0.43
CRRC – Initial thermal emittance	ASTM C1371	0.90	0.86	0.89
CRRC – Thermal emittance after 3 years	ASTM C1371 (uncleaned)	0.86	0.87	0.88
LEED – Thermal emittance	ASTM E408	0.9	0.86	0.85
SRI – Initial (Solar Reflectance Index)	ASTM E1980	99	86	52
SRI – 3 year aged (Solar Reflectance Index)		85	77	49

Radiative Properties (Initial) for Special Colors

	Reflectance	Emittance	SRI
Medium Bronze	0.28	0.86	29
Rock Brown	0.25	0.87	26
Slate Gray	0.38	0.87	42
Terra Cotta	0.25	0.86	25
Patina Green	0.25	0.88	25

Solar Reflectance Index (SRI) is calculated per ASTM E1980. The SRI is a measure of the roof's ability to reject solar heat, as shown by a small temperature rise. It is defined so that a standard black (reflectance 0.05, emittance 0.90) is 0 and a standard white (reflectance 0.80, emittance 0.90) is 100. Materials with the highest SRI values are the coolest choices for roofing. Due to the way SRI is defined, particularly hot materials can even take slightly negative values and particularly cool materials can even exceed 100.



VersiWeld TPO Reinforced Membrane

Typical Properties and Characteristics

Physical Property	ASTM D6878 Requirement	45-mil (1.14 mm)	60-mil (1.52 mm)	80-mil Plus (2.03 mm)
Tolerance on Nominal Thickness, % ASTM D751 test method	+15, -10	± 10	± 10	± 10
Thickness Over Scrim, in. (mm) ASTM D7635 optical method, average of 3 areas	0.015 min (0.380)	0.018 typical (0.457)	0.024 typical (0.610)	0.034 typical (0.864)
Breaking Strength, lbf (kN) ASTM D751 grab	220 (976 N) min	225 (1.0) min 320 (1.4) typical	250 (1.1) min 360 (1.6) typical	350 (1.6) min 425 (1.9) typical
Elongation Break of Reinforcement, % ASTM D751 grab method	15 min	15 min 25 typical	15 min 25 typical	15 min 25 typical
Tearing Strength, lbf (N) ASTM D751 proc. B 8 in. x 8 in.	55 (245) min	55 (245) min 130 (578) typical	55 (245) min 130 (578) typical	55 (245) min 130 (578) typical
Brittleness Point, °F (°C) ASTM D2137	-40 (-40) max	-40 (-40) max -50 (-46) typical	-40 (-40) max -50 (-46) typical	-40 (-40) max -50 (-46) typical
Linear Dimensional Change, % ASTM D1204, 6 hours at 158°F	± 1 max	± 1 max -0.2 typical	± 1 max -0.2 typical	± 1 max -0.2 typical
Ozone Resistance, no cracks 7X ASTM D1149, 100 pphm, 168 hrs	PASS	PASS	PASS	PASS
UV Exposure (Xenon Arc), no cracks 7X ASTM G155, min. exposure 10,080 kJ/m ² (4,000 hrs – 0.70 W/m ²)	PASS	PASS	PASS	PASS
Water Absorption Resistance, mass % ASTM D471 top surface only 166 hours at 158°F water	± 3.0 max	± 3.0 max 0.90 typical	± 3.0 max 0.90 typical	± 3.0 max 0.90 typical
Factory Seam Strength, lbf (N) ASTM D751 grab method	66 (290) min	66 (290) min	66 (290) min	66 (290) min
Field Seam Strength, lbf/in (kN/m) ASTM D1876 tested in peel	No requirement	25 (4.4) min 50 (8.8) typical	25 (4.4) min 60 (10.5) typical	40 (7.0) min 70 (12.3) typical
Water Vapor Permeance, Perms ASTM E96 proc. B	No requirement	0.10 max 0.05 typical	0.10 max 0.05 typical	0.10 max 0.05 typical
Puncture Resistance, lbf (kN) FTM 101C, method 2031 (see supplemental section)	No requirement	250 (1.1) min 325 (1.4) typical	300 (1.3) min 350 (1.6) typical	400 (1.8) min 450 (2.0) typical
Properties After Heat Aging ASTM D573, 32 weeks @ 240°F or 8 weeks @ 275°F No cracking when bent around 3" diameter mandrel Weight Change, %	PASS No cracking ± 1.5 max	PASS No cracking 1.0 max	PASS No cracking 1.0 max	PASS No cracking 1.0 max
Typical Weights lb/ft ² (kg/m ²)		0.25 (1.22)	0.33 (1.61)	0.45 (2.20)

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.



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VersiWeld® Bonding Adhesive



Overview

VersiWeld Bonding Adhesive is a high-strength solvent-based contact adhesive that allows bonding of VersiWeld TPO membrane to various porous and non-porous substrates.

Features and Benefits

- Solvent-based bonding adhesive that allows for quick drying
- Can be roller-applied with medium nap roller
- Provides excellent adhesion to various substrates

Coverage Rate

60 sq. ft. (5.6 m²) per gallon finished surface. Coverage rates are average and may vary due to conditions on the jobsite. Porous surfaces and substrates may require more bonding adhesive than the typical coverage rate.

Mixing

Stir thoroughly until all settled pigments are dispersed and the adhesive is uniform in color. Minimum 5 minutes stirring is recommended.

Application

1. The surface, on or against which adhesive is to be applied, shall be clean, smooth, dry, free of fins, sharp edges, loose and foreign materials, oil and grease. Depressions greater than 1/4" (6 mm) should be feathered, using epoxy, mortar or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning.
2. After thorough stirring (minimum 5 minutes), apply VersiWeld Bonding Adhesive to substrate and membrane using a 9" (23 mm) medium nap roller. Application shall be continuous and uniform avoiding globs or puddles. An open time of 5 to 50 minutes, based on drying conditions is recommended before assembly. VersiWeld Bonding Adhesive must be allowed to dry until it does not string or stick to a dry finger touch. Any coated area which has been exposed to rain should be allowed to dry and then recoated. Do not apply adhesive to splice areas to be hot-air welded.
3. Roll the membrane onto the adhesive coated substrate while avoiding wrinkles. Immediately brush down the bonded portion of the sheet with a soft bristle push broom or a 150 lb. segmented roller to achieve maximum contact.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

Precautions

1. Review the applicable Safety Data Sheet for complete safety information prior to use.
2. VersiWeld Bonding Adhesive is **EXTREMELY FLAMMABLE**. It contains solvents that are dangerous fire and explosion hazards when exposed to heat, flame or sparks. Do not smoke while applying. Do not use in a confined or unventilated area. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point and flashback. All containers should be grounded when material is transferred from one container to another. A red caution label is required when shipping. A fire extinguisher should be available. In case of fire, use water spray, foam, dry chemical or carbon dioxide. Do not use a solid stream of water because it can scatter and spread the fire.
3. Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. If inhaled, remove to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately. During application, efforts must be made to prevent fumes from entering the building via air ventilation ducts. Do not place open containers or mix adhesive near fresh air intake units. When possible, shut down or seal off the closest units.

VersiWeld Bonding Adhesive

4. If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately.
5. Avoid contact with eyes. Safety glasses or goggles are recommended. If splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes. Contact a physician immediately.
6. Avoid contact with skin. Wash hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water. Contact physician if irritation persists.

Note: Permeation-resistant gloves (that meet ANSI/ISEA 105-2005) are recommended to be worn when using this product to protect hands from irritating ingredients.

7. Do not thin VersiWeld Bonding Adhesive. Thinning will affect performance. Excessively thick or gelled material should be discarded.
8. Jobsite storage in excess of 90°F (32°C) may affect product shelf life. Should the VersiWeld Bonding Adhesive be stored at temperatures lower than 60°F (15°C), restore to room temperature prior to use.
9. Opened containers of VersiWeld Bonding Adhesive should be used within 48 hours. Adhesives will begin to thicken after this point, making it difficult, and eventually impossible, to control applied thickness. In hot weather, do not leave sealed containers on roof for prolonged periods of time. In cold weather, keep material at room temperature until ready to use. Stir adhesive occasionally while using.
10. Adhesive must be allowed to dry thoroughly. If membrane is mated with the substrate prior to the adhesive being dry, blistering will occur and not subside over time.
11. KEEP OUT OF THE REACH OF CHILDREN.

Typical Properties and Characteristics

Property	Value
Base	Synthetic Rubber
Color	Yellow
Solids	20%
Flash Point	-4°F (-20°C) Closed Cup
Brookfield Viscosity	2600 Centipoises
Avg. Net Weight	7.1 lbs/gal (3.2 kg)
Packaging	5-gallon pail
Shelf Life	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	670 g/L



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CAV-GRIP® 3V Adhesive/Primer



Overview

Versico's CAV-GRIP 3V is a low-VOC (<250 g/L), California-compliant, spray applied aerosol contact adhesive and primer used for a variety of applications: adhering standard TPO and EPDM membranes to horizontal and vertical surfaces, adhering VersiFleece® membranes to vertical surfaces, as a primer for VapAir Seal™ 725TR, and as an unexposed asphalt primer for Flexible DASH. CAV-GRIP 3V is available in disposable/recyclable #40 size cylinders and in returnable/refillable #85 size cylinders.

CAV-GRIP 3V is applied using a self-contained spray system for quick and even coverage with an excellent open time and requires minimal clean-up or maintenance. A spray gun with an extension wand is available for field of roof applications and a standard spray gun is available for wall applications. **Please note: CAV-GRIP 3V, spray guns and hoses are each sold separately.**

Features and Benefits

- Excellent option for adhering TPO and EPDM to horizontal and vertical surfaces and all VersiFleece membranes to vertical surfaces
- Can be used in temperatures as low as 25°F (-4°C) when used as an adhesive and 15°F (-9°C) when used as a primer
- Easy setup
- Easy cleanup
- Low odor

Labor Saving Features and Benefits:

- Quick application with spray gun
- Fast flash-off and great open time
- No stirring
- Up to 60% labor savings compared to traditional bonding adhesive
- Compatible with 5' and 10' wide spray carts
- Optional Dual-Tip Spray Applicator for faster application



Specifications

Membrane	Wall	Field
VersiWeld® TPO	✓	✓
VersiGard® EPDM	✓	✓
VersiFlex™ PVC	X	X
VersiFleece®	✓	X

Installation

1. Connect spray gun to hose and connect hose to cylinder. Use lithium grease or petroleum jelly on all fittings and be careful to avoid cross-threading. Open valve on cylinder to check fittings for leaks. **Keep cylinder valve open to maintain pressure in the hose/spray gun when not in use.**
2. CAV-GRIP 3V can be applied at ambient temperature of 25°F and above. **Propellant in cylinders must be kept above 70°F for the product to spray properly. Utilize power-heated blankets and hot boxes when necessary. Ensure that cylinder temperatures stay below 110°F.** Substrate shall be clean, dry, and free of debris and contaminants.
3. For applications taking place in ambient temperature below 70°F, store cylinders in heated space and move to project area during application. Cylinders must be kept warm on the jobsite. Dispense product from cylinder while it is still warm. When product in cylinder becomes too cold, it will begin to spit rather than spray. If this occurs, swap cold cylinder for warmer one and return cold cylinder to heated area. When changing cylinder, close the valve on the cylinder and depressurize the hose. Remove the hose and attach to the new cylinder. Open valve and do a test spray.
4. Apply CAV-GRIP 3V in an even coat to substrate (refer to the drawing on page 3), keeping the spray tip approximately 12" (30 cm) away and perpendicular to the surface during spray. Avoid high thickness buildup that can skin over, trap solvent, and create a blister.



CAV-GRIP 3V Adhesive/Primer

5. Allow heavy areas of CAV-GRIP 3V to flash-off until it does not transfer to your finger when touched and pushed. Limit application of CAV-GRIP 3V to surfaces that will be covered with membrane or Versico's VapAir Seal™ 725TR the same day.
6. Solvent flash-off can lower the surface temperature below the dew point causing moisture to form on the adhesive. Slide your hand across the flashed-off adhesive on the insulation or cover board to ensure moisture has evaporated and the adhesive surface is dry and tacky prior to installing the membrane.

Vertical Applications of Standard TPO, EPDM, or any VersiFleece membrane:

Acceptable substrates include: Versico's VersiCore® Polyiso, SecurShield® Polyiso, SecurShield HD, SecurShield HD Plus, DensDeck® Prime, SECUROCK®, OSB, plywood, metal, residual asphalt, and clean concrete block. To improve adhesion and reduce the potential for asphalt bleed-through on vertical surfaces with residual asphalt, apply an initial "sealing" base coat of CAV-GRIP 3V and allow to flash off properly; then, apply a second coat of CAV-GRIP 3V to the vertical surface. Contact Versico before using on substrates other than those listed above.

There are no vertical height restrictions when using CAV-GRIP 3V.

1. Spray wall and back of the membrane, utilizing a 50% overlapping spray pattern.
2. Do not apply adhesive to splice areas.
3. Allow adhesive to flash-off so it does not transfer to fingers when touched and pushed.
4. Mate membrane with the wall from the center of the sheet towards the edges, smoothing by hand.
5. Broom the membrane with a soft-bristle broom.
6. Roll in with a hand roller or extendable floor roller.

Horizontal Application of Standard TPO or EPDM Membranes

Acceptable substrates include: Versico's VersiCore Polyiso, SecurShield Polyiso, SecurShield HD, SecurShield HD Plus, DensDeck Prime, SECUROCK, OSB, and plywood. Please see Versico's Specifications for a complete list of acceptable substrates.

The surface, on or against which adhesive is to be applied, shall be clean, smooth, dry, free of films, sharp edges, loose and foreign materials, oil and grease. Depressions greater than ¼" (6 mm) should be feathered, using epoxy, mortar or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning.

Application shall be continuous and uniform, avoiding globs or puddles.

1. Spray substrate and back of the membrane with enough overlap to ensure 100% coverage.
2. Do not apply adhesive to splice areas to be hot-air welded.
3. Allow heavy areas of adhesive to flash-off so the adhesive does not transfer to your finger when touched and pushed.
4. Roll the membrane onto the adhesive-coated substrate while avoiding wrinkles. **Immediately brush down the bonded portion of the sheet with a soft-bristle push broom and then roll the membrane with a weighted segmented roller to achieve maximum contact.**

CLEANUP: Versico's Low-VOC UN-TACK™ solvent or mineral spirits can be used to clean tools and surfaces. If the spray gun valve becomes stuck, attach hose and spray gun to cylinder of Citrus Cleaner or Low-VOC UN-TACK and trigger spray gun repeatedly until operation is smooth. If the spray gun is clogged, a small-gauge wire or torch clean-out tool is helpful after soaking the brass fitting in Low-VOC UN-TACK.

STORAGE: Store cylinders in protected, conditioned space with temperature maintained above 70°F. Do not store or heat cylinders where temperatures reach 110°F or higher. Contents are flammable. Store in accordance with local, state, and federal regulations. **Keep cylinder valve open to maintain pressure in the hose and spray gun.** Periodically spray in a safe manner to help prevent possible clogging. Keep spray gun trigger locked when not in use. Flush gun and hose with Low-VOC UN-TACK for long-term storage beyond 30 days.

Return Instructions for #85 Cylinders:

1. A minimum of 12 empty cylinders are required for a free return.
2. Arrange 12 empty #85 cylinders upright on a pallet.
3. Secure and shrink-wrap the entire pallet (including cylinders) to ensure safe shipment.
4. Call the 1-800 number listed on the #85 cylinder to schedule the pick-up of the pallet.
5. Please note: A forklift or loading dock is the preferred method to load the pallet onto the truck. If a forklift or loading dock is not available, discuss alternative methods when arranging the return.

[Click here for the CAV-GRIP 3V Canister Return Form.](#)

CYLINDER DISPOSAL: When all adhesive/primer in the cylinder has been used, close cylinder valve and evacuate hose and spray gun before disconnecting hose from cylinder. If hose is not to be connected to a new cylinder immediately, do not evacuate hose and spray gun to ensure material does not harden in spray gun and hose. Clean up adhesive/primer residue, spray gun, and spray tips with Low-VOC UN-TACK or mineral spirits. In most areas, the empty cylinder can be disposed as an aerosol can or recycled as scrap metal. If disposal is not allowed in your area, contact your distributor for disposal arrangements. Federal law forbids transportation if refilled.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.



CAV-GRIP 3V Adhesive/Primer

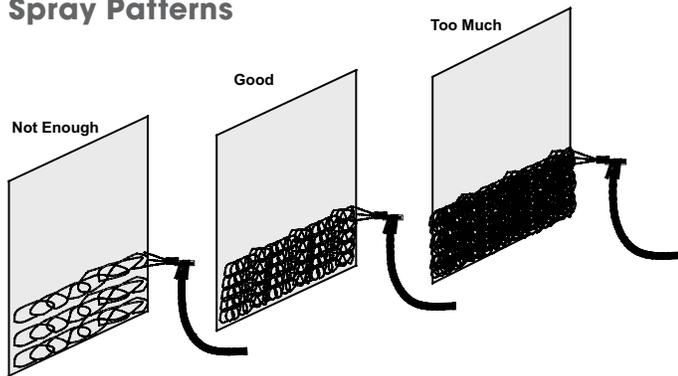
Precautions

CAV-GRIP 3V is a flammable liquid propellant and vapor. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from the material handling point and flashback. Keep away from open flame. Use with adequate ventilation. Avoid inhalation of spray mist or vapors. Harmful or fatal if swallowed. May cause eye irritation. Keep out of reach of children. Review Safety Data Sheet for complete safety information prior to use. Use of goggles and gloves is required. #40 aerosol cylinders are not refillable and when empty are harmless and disposable. Dispose according to local codes and laws. Read safety precautions and warnings on cylinder label. Wear gloves and goggles before using this product. Do not aim spray gun at people or animals at any time. PPE Gloves must be used while handling material.

For industrial professional use only.

*Important note: cylinder, hoses, and gun are each sold separately

Spray Patterns



Proper Coverage on Membrane



Proper Coverage on Insulation

Packaging

Product	Size/Weight	Part Number
CAV-GRIP 3V	#40 Aerosol Cylinder Fill Weight: 30 lbs of adhesive	330420
CAV-GRIP 3V #85 (returnable cylinder)	#85 Cylinder Fill Weight: 60 lbs of adhesive	332800
6' Hose	6' Length	304302
12' Hose	12' Length	304303
18' Hose	18' Length	304304
Spray Gun with Extension	-	330912
Spray Gun - Adjustable	-	307490
Dual-Tip Spray Applicator	-	348903
Low-VOC UN-TACK	#8 Aerosol Cylinder	330793

Typical Properties and Characteristics

Physical Property	Typical Value
Color	Light Green
Consistency	Aerosol Spray
Spray Pattern	Variable Web
Odor	Low
Base	Rubber/Solvent Blend
Coverage Rate #40 Cylinder	1-Sided Primer - 2000-2500 ft ² when used with air and vapor barriers* 2-Sided Adhesive - Walls - 750 ft ² * 2-Sided Adhesive - Field - 1000 ft ² *
Coverage Rate #85 Cylinder	1-Sided Primer - 4000-5000 ft ² * 2-Sided Adhesive - Walls - 1500 ft ² * 2-Sided Adhesive - Field - 2000 ft ² *
Adhesion	Excellent
Flammability	Flammable when wet. Non-flammable when dry.
Water Resistance	Excellent
Mildew Resistance	Excellent
Shelf Life	12 months (unopened container)

* Approximate Coverage

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Lynchburg, VA
VOC	248 g/L

Low-VOC UN-TACK Adhesive Remover and Cleaner



Typical Properties and Characteristics

Color	Clear
Consistency	Aerosol Spray
Odor	Slight Solvent
VOC	33 g/l
Application Temperature	25°F to 100°F
Packaging	#8 Aerosol Cylinder
Part Number	330793

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. Versico's Low-VOC UN-TACK Adhesive Remover and Cleaner CANNOT be used to clean CAV-PRIME pressurized cylinders.

*For application procedures and precautions please see the Low-VOC UN-TACK Adhesive Remover and Cleaner Technical Data Bulletin.

Overview

Versico's Low-VOC UN-TACK Adhesive Remover and Cleaner is designed to remove adhesives from a variety of surfaces including single-ply membranes, accessories, metal, plastic, rubber, and glass. Low-VOC UN-TACK is used to clean spray guns and hoses when an opened CAV-GRIP 3V cylinder is going to be stored for more than 30 days.

Features and Benefits

- Clears clogged spray guns and hoses
- Allows easy cleanup of excess adhesive and overspray
- VOC Compliant in all 50 states

Coverage Rate

250–300 ft² surface area to be cleaned per Low-VOC UN-TACK cylinder.



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VersiCore® Polyiso



Overview

VersiCore is a rigid-roof insulation panel composed of a closed-cell polyisocyanurate foam core bonded on each side to glass-reinforced felt (GRF). ReadyFlash® Technology is a standard feature of VersiCore Polyiso that allows the contractor to manipulate flash-off times by choosing which side of the insulation board to apply membrane adhesives. ReadyFlash features a dark glass-reinforced felt (GRF) on one side of the insulation board and a light glass-reinforced felt on the other.

ReadyFlash
TECHNOLOGY

- Increases surface temperature of the dark facer up to 25°F above ambient temperature and provides up to 30% faster adhesive flash-off.
- Decreases surface temperature of the light facer up to 5°F below ambient temperature.

Features and Benefits

- VersiCore polyiso insulation provides the highest R-value per inch of commercially available insulation products
- Zero ozone-depleting components, HFC- and HCFC-free formulation
- Approved for direct application to steel decks

Panel Characteristics

- Available in 4' x 4' (1220 mm x 1220 mm) and 4' x 8' (1220 mm x 2440 mm) panels in thickness of 0.5" (13 mm) to 4.5" (115 mm)
- Available in 4' x 12' (1220 mm x 3660 mm) panels in the following thickness: 1.5", 1.75", 2.0", 2.2", 2.5", 2.6", 3.0", 3.3", and 3.5"

Applications

- Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)



Sustainable Attributes

Versico Roofing Systems' focus has always been innovation – Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- Zero ozone-depleting components, HFC- and HCFC-free formulation
- CDPH Compliant for maximum allowable concentrations of target VOCs
- Up to 56.9% recycled content by weight (36.6% post-consumer/20.3% pre-consumer)
- Contributes to LEED® and Green Globes certification requirements
- End-of-life jobsite disposal options available for re-use/re-purposing
- Versico Polyiso Roof Insulation and HD Cover Board EPDs available
- PIMA Quality Mark^{CM} Certification Program participant for Long-Term Thermal R-values (LTTR)
- Highest R-value per inch providing maximum energy savings and CO₂ emissions avoidance

Polyiso Eco Ready (Optional)

- 5% bio-content option available (for 2.0" and 2.6" thicknesses)
- Contributes to carbon reduction initiatives via mass balance approach under ISCC PLUS compliance

Installation

Ballasted Single-Ply Systems

Each VersiCore panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Mechanically Attached Single-Ply Systems

VersiCore panels must be secured to the roof deck with fasteners and plates (appropriate to the deck type). Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Fully Adhered Single-Ply Systems

VersiCore panels must be secured to the roof deck with fasteners and plates (appropriate to deck type). Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

VersiCore 4' x 8' and 4' x 12' panels can be secured to the roof deck with Versico's Flexible DASH™ Adhesive, either full coverage or bead spacing.

VersiCore 4' x 4' panels may be adhered to prepared concrete deck with a full mopping of Type III or IV asphalt.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

VersiCore Polyiso

Codes and Compliances

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)
- International Building Code (IBC) Section 2603
- UL Standard 790, 263 and 1256: Component of Class A Roof Systems (refer to UL Roof Materials' system directory)
- FM® Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNavSM)
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1418
- Third-party certification with the PIMA QualityMark^{CM} for Long-Term Thermal Resistance (LTTR) values
- CAN/ULC S704, Type 2, Class 3 (20 psi), Type 3, Class 3 (25 psi)
- Florida Building Code Approval
- CDPH compliant for maximum allowable concentrations of target VOCs

Precautions

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof-covering material. Protect installed product from excessive foot traffic. Versico will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice. Call Versico for more specific details, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation.

Typical Properties and Characteristics

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621	20 psi* minimum (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E96	<1 perm (57.5 ng/(Pa*s*m ²))
Water Absorption	C1763	<1% volume

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.

*Also available in 25 psi minimum, Grade 3

VersiCore Polyiso Thermal Values

Thickness (inches)	LTTR R-value	Thickness (inches)	LTTR R-value
0.5	2.8	2.75	15.9
0.75	4.2	2.8	16.2
1	5.7	2.9	16.8
1.1	6.3	*3	17.4
1.2	6.8	3.1	18
1.25	7.1	3.2	18.6
1.3	7.4	3.25	18.9
1.4	8	*3.3	19.2
*1.5	8.6	3.4	19.9
1.6	9.1	*3.5	20.5
1.7	9.7	3.6	21.1
*1.75	10	3.7	21.7
1.8	10.3	3.75	22
1.9	10.8	3.8	22.3
*2	11.4	3.9	23
2.1	12	4	23.6
*2.2	12.6	4.1	24.2
2.25	12.9	4.2	24.9
2.3	13.2	4.25	25.2
2.4	13.8	4.3	25.5
*2.5	14.4	4.4	26.1
*2.6	15	4.5	26.8
2.7	15.6	-	-

Flute Spanability is 2 3/8" for 1.4" or thickness or smaller. Flute Spanability is 4 3/8" for 1.5" thickness or greater.

*4' x 12' offering is available in this thickness.



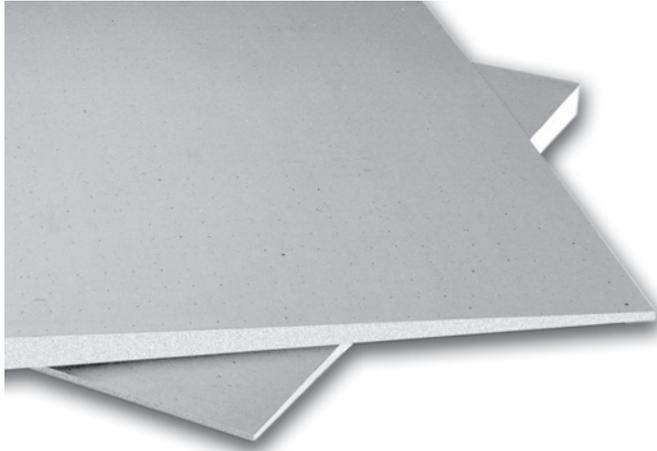
Foamed plastic as roof deck construction material with resistance to an internal fire exposure only for use in construction no.(s) 120 and 123. See UL Directory of Products Certified for Canada and UL Roofing Materials and Systems Directory. 99DL.



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VersiCore® Tapered Polyiso



Overview

VersiCore Tapered is a sloped rigid roof insulation panel composed of a closed cell polyisocyanurate foam core bonded to glass reinforced felt (GRF) facers.

Features and Benefits

- VersiCore Tapered polyiso insulation provides the highest R-value per inch of commercially available insulation products
- Environmentally friendly construction with 0% ozone depleting components and CFC free
- Approved for direct application to steel decks

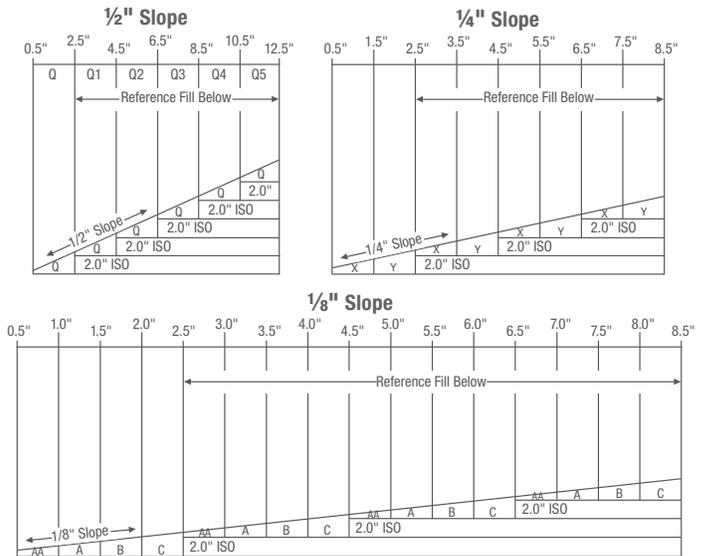
Panel Characteristics

- Available in 4' x 4' (1220 mm x 1220 mm) in thickness of 1/2" (12 mm) minimum to 4.5" (115 mm) maximum
- Available slopes (per foot):
 - 1/8" (3 mm)
 - 1/4" (6 mm)
 - 3/8" (10 mm)
 - 1/2" (12 mm)

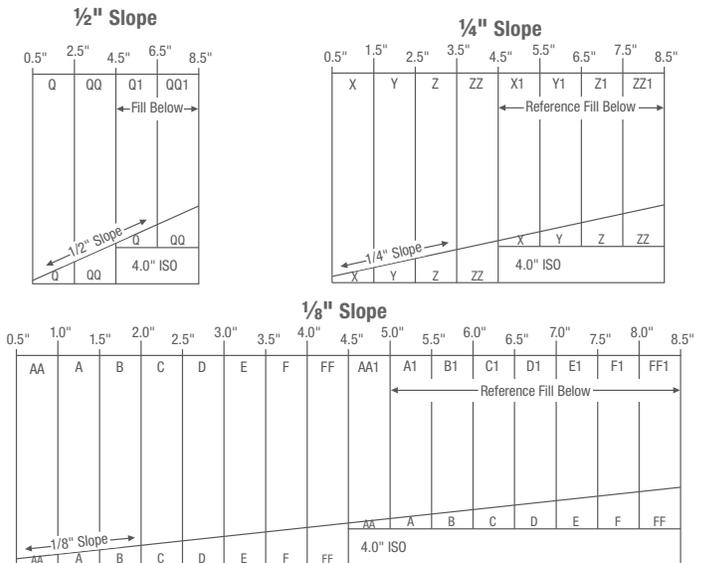
Applications

Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)

Standard Panel Profiles



Extended Panel Profiles



VersiCore Tapered Polyiso

Installation

Ballasted Single-Ply Systems

Each VersiCore Tapered panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Mechanically Attached & Fully Adhered Single-Ply Systems

Secure each VersiCore Tapered panel to the roof deck with Versico's Flexible DASH™ adhesive or the appropriate plate and fastener. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Codes and Approvals

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)
- International Building Code (IBC) Section 2603
- UL Standard 790, 263 and 1256: Component of Class A Roof Systems (refer to UL Roof Materials' system directory)
- CAN/ULC S704, Type 2 & 3, Class 2
- Third-party certification with the PIMA QualityMark™ for Long-Term Thermal Resistance (LTTR) values
- FM® Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNav)
- FLORIDA BUILDING CODE APPROVAL FL#1296
- MIAMI-DADE COUNTY, FLORIDA NOA NO: 04-1018.01

Sustainable Attributes

Versico's focus has always been innovation - Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- Highest R-value per inch providing maximum energy savings and CO2 emissions avoidance
- PIMA QualityMark™ Certification Program participant for Long-Term Thermal R-values (LTTR)
- CDPH Compliant for maximum allowable concentrations of target VOCs

- Versico Polyiso Roof Insulation and HD Cover Board EPDs available
- Contributes to LEED and Green Globes certification requirements
- End-of-life jobsite disposal options are available for re-use/re-purposing
- Zero ozone-depleting components, HFC- and HCFC-free formulation

Precautions

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof-covering material. Versico will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the jobsite or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice. Call Versico for more specific details, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation.

Typical Properties and Characteristics

Property	Test Method	Value
Compressive Strength	ASTM D1621 ASTM 1289	20 psi minimum (138 kPa, Grade 2)
Dimensional Stability	ASTM D2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E96 12.10	<1 perm (57.5ng/(Pa*s*m²))
Water Absorption	ASTM C209	<1% volume
Service Temperature		-100° to 250°F (-73°C to 122°C)

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.



Foamed plastic as roof deck construction material with resistance to an internal fire exposure only for use in construction no.(s) 120 and 123. See UL Directory of Products Certified for Canada and UL Roofing Materials and Systems Directory. 99DL.



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HPV Fasteners



Overview

Versico's HPV Fastener is used with various Versico fastening plates to secure membrane, insulation, and Quick-Applied (QA) Reinforced Termination Strip (RTS) to a variety of substrates. Specially designed for securement of membrane on Versico's VersiGard® Reinforced EPDM mechanically attached systems, Versico's HPV Fasteners are compatible with 22-gauge and heavier steel, CDX plywood, and wood plank deck types. The HPV Fasteners are designed to offer a good combination of pull-out, back-out, and corrosion resistance with excellent driving performance.

Features and Benefits

- Buttnut thread design and wide surface contact provide increased pull-out and back-out resistance
- Can be used on wood (minimum 1½" [12 mm] CDX plywood) and steel decks (22-gauge [0.76 mm] or heavier)
- Mini drill-point is designed to maximize installation efficiency
- Excellent corrosion resistance, surpassing the FM 4470 corrosion test

Installation

No pre-drilling is necessary for wood and steel decks. Simply insert the HPV Fastener through an approved Versico plate and install with a standard clutch drive electric screw gun (0–2,500 rpm). Optimum fastener performance is achieved when the fastener is installed perpendicular to the deck and into the top flutes of a steel deck.

REVIEW VERSICO'S SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

1. Eye protection is recommended during installation.
2. Use care to avoid over-driving the fastener.

Typical Properties and Characteristics

Size – Inches (mm)	Weight/Cartron (Kg)	Thread Length	Packaging Fasteners (ctn)
1¼ (30)	12.4 lbs (5.62)	Full	1,000
2 (50.8)	18.25 lbs (8.27)	Full	1,000
3 (76.2)	24.85 lbs (11.27)	Full	1,000
4 (101.6)	32.2 lbs (14.60)	Full	1,000
5 (130)	39.4 lbs (17.87)	4 (100)	1,000
6 (150)	46.9 lbs (21.27)	4 (100)	1,000
7 (175)	27.7 lbs (12.56)	4 (100)	500
8 (200)	31.5 lbs (14.28)	4 (100)	500
9 (225)	35.8 lbs (16.23)	4 (100)	500
10 (250)	39.8 lbs (18.05)	4 (100)	500
11 (280)	42.6 lbs (19.32)	4 (100)	500
12 (300)	46.6 lbs (21.13)	4 (100)	500
13 (330)*	24.7 lbs (11.20)	4 (100)	250
14 (355)*	26.5 lbs (12.02)	4 (100)	250
15 (380)*	28.5 lbs (12.92)	4 (100)	250

Please note: 13", 14", and 15" sizes are available in cardboard cartons only. 2"–12" available in stainless steel.

	Steel Deck 22-Gauge or Heavier	Wood Deck 1½" Plywood
Minimum Penetration	¾" (19 mm)	1" (25 mm)
Maximum Penetration	4" (100 mm)	4" (100 mm)
Typical Static Back-out	15.1 in lbs (1.7 N-m)	N/A
Typical Drill Times	1.5 seconds (18-gauge deck)	N/A

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.

Insulation Fastening Plates



Typical Properties and Characteristics

Property	Value
Size	3" Round
Weight/Carton	37 lbs.
Quantity	1000 / Carton
Material	Galvalume-Coated Steel
Thickness	26 Gauge
Corrosion Resistance	Galvalume-Coated Steel meets the FM 4470 test

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.

Overview

Versico Insulation Fastening Plates are specifically designed for attachment of insulation and cover boards under Versico roofing systems. Insulation Fastening Plates are stamped from Galvalume®-coated steel for long-term protection against corrosion. The round design provides an even distribution of loads and eliminates sharp corners that can damage insulation.

Installation

1. Position insulation plates per Versico Specifications.
2. Secure insulation plates using the appropriate Versico fastener.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- Eye protection is recommended during drilling and installation of fasteners.



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