



# SPECIFICATION

## SUPPLEMENT

### E-01

## VersiGard Polyepichlorohydrin (ECO/CO) Membrane / Application Procedure

July 2025

*Information contained herein represents minimum requirements which must be complied with when overlaying any of Versico's VersiGard (black or white) EPDM roofing systems with Polyepichlorohydrin membrane to protect primary roofing membrane from grease and oil. Building owner or his/her representative must assess and determine the variety of fluids expected to be in contact with membrane and consult Versico concerning their compatibility.*

#### A. Description

The VersiGard Polyepichlorohydrin (ECO/CO) membrane is especially designed to resist hydrocarbons, aromatic solvents, grease and oil and shall be used as an overlayment to protect existing VersiGard (black or white) EPDM membrane against minor or incidental oil spills.

The ECO/CO overlayment membrane is considered a maintenance items and not included under the coverage the warranted membrane roofing system.

1. For overlayment to a fully adhered or mechanically attached roofing system, the ECO/CO membrane adhered with G200SA Substrate Adhesive or Low VOC Bonding Adhesive.
2. When overlaying ballasted membrane (prior to installing the ballast) the ECO/CO membrane may be loose laid and then ballasted
3. At all edges allow a minimum width of 6" for splicing ECO/CO membrane onto the EPDM membrane.
4. In the area where the ECO/CO membrane is to be installed the roof slope shall be a minimum 1/4" in 12".

#### B. Related Products

1. **Versico Weathered Membrane Cleaner:** A clear, solvent-based cleaner used to clean the EPDM surface necessary for applying primer and VersiGard Lap Sealant. Available in 1 or 5-gallon pails.
2. **Low-VOC Membrane Cleaner:** A low VOC (volatile organic compound) cleaner (100% EPA-exempted solvents) used to loosen and remove dirt and other contaminants from the surface of exposed EPDM membrane prior to applying Versico EPDM Primer. Available in 1 and 5-gallon pails.
3. **G200SA Substrate Adhesive:** A high-strength, yellow colored, synthetic rubber adhesive used for bonding VersiGard (black or white) EPDM membranes to various surfaces. Available in 5 gallon pails.
4. **EPDM x-23 Low-VOC Bonding Adhesive:** A Low-VOC (volatile organic compound) bonding adhesive (less than 250 grams/liter) used for bonding VersiGard/VersiGard White EPDM membranes to various surfaces. Adhesive is available in 5 gallon pails.
5. **Low VOC Bonding Adhesive:** A low VOC (volatile organic compound) bonding adhesive (less than 250 grams/liter) used for bonding VersiGard (black or white) EPDM membranes to various surfaces. Available in 5 gallon pails.
6. **Solvent-Free EPDM Bonding Adhesive:** A solvent free, odor free, non-flammable, low VOC Bonding Adhesive used to adhere EPDM to multiple substrates. This one-sided application adhesive requires

adhesive to be applied to substrate only, when slopes are less than 1". Slopes greater than 1" or vertical substrates may require 2-sided application. When the solvent-free adhesive is specified, authorized applicators must review applicable product installation information listed on the appropriate Technical Data Bulletin.

7. **VersiGard (black) QA Seam Tape:** A 3" or 6" wide by 100' long splice tape used for splicing adjoining sections of ECO/CO to ECO/CO membrane and to EPDM membrane.
8. **VersiGard (white) QA Seam Tape:** A 3" or 6" wide by 100' long, cream colored splice tape used with VersiGard (white) Systems.
9. **Versico V-150 EPDM Primer:** A solvent-based primer used to prepare the surface of EPDM or ECO/CO membrane for application of QA Seam Tape. Available in 1 gallon pails.
10. **Low VOC EPDM Primer** - A low VOC (volatile organic compound) primer (less than 250 grams/liter) for use with QA Seam Tape. Available in 1 gallon pails.
11. **CAV-GRIP 3V Low-VOC Adhesive/Primer:** a Low-VOC, methylene chloride-free adhesive that can be used for a variety of applications including: bonding VersiWeld membrane to various surfaces, enhancing the bond between Versico's VapAir Seal 725TR and various substrates, priming unexposed asphalt prior to applying Flexible DASH Adhesive and for adhering VersiWeld/VersiFlex VersiFleece and VersiGard EPDM or VersiWeld TPO membrane to vertical walls and horizontally, for the field of the roof. Coverage rate is approximately 2,000-2,500 sq. ft. per #40 cylinder and 4,000-5,000 sq. ft. per #85 cylinder as a primer, in a single-sided application; 750 sq. ft. per #40 cylinder and 1,500 sq. ft. per #85 cylinder as an adhesive for vertical walls, in a double-sided application; 1,000 sq. ft. per #40 cylinder and 2,000 sq. ft. per #85 cylinder as an adhesive, horizontally, for the field of the roof, in a double-sided application.
12. **VersiGard Lap Sealant:** A heavy bodied material used to seal the exposed edges of ECO/CO membrane splices. Available in individual tubes.

### C. Membrane (Epichlorohydrin (ECO/CO))

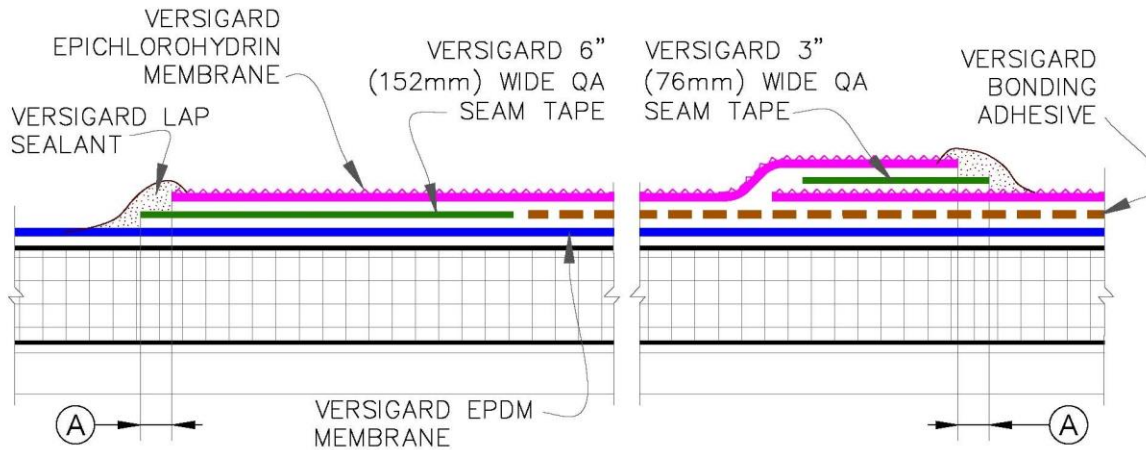
1. Cured, non-reinforced (black), 60-mil (1.5 mm) thick ECO/CO compounded Hydrin epichlorohydrin elastomer, which conforms to the minimum physical properties as listed below. The membrane is available in maximum 10' (3.05 m) widths and 50' (15.25 m) lengths.

Physical Property	Test Method	SPEC.(Pass)	Typical
Tolerance on Nominal Thickness, %	ASTM D 412	±10	±10
Tensile Strength, min, psi (MPa)	ASTM D 412	1305 (9.0)	1556 (10.7)
Elongation, Ultimate, min, %	ASTM D 412	200	316
Tear Resistance, min, lbf/in (kN/m)	ASTM D 624 (Die C)	150 (26.3)	263 (46.0)
Resistance to Heat Aging* Properties after 168 hours @ 240°F (116°C) Tensile Strength, min, psi (MPa) Elongation, Ultimate, min, %	ASTM D 573  ASTM D 412 ASTM D 412	1305 (9.0)  1400 (9.6) 150	
Ozone Resistance* Condition after exposure to 100 ppm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg. C)*	ASTM D 746	-20 (-29)	-20 (-29)
Water Vapor Permeability* max, perms (.060" thickness)	ASTM E 96 (Proc. B)	0.1	.042
Oil Absorption * Change in mass, max, % after 7 days immersion in diesel fuel #2 at 158°F (70°C)	ASTM D 471	15	13.5
* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.			

#### D. Splice Procedure

- Remove dirt and excess dust** from the mating surfaces of both sheets by wiping with a clean rag. Clean the dry splice area of both sheets by scrubbing with Weathered Membrane Cleaner until the mating surfaces are solid black in color with no streaking.
- Apply Primer to achieve a thin, even coat** on both membrane surfaces with Versico V-150 or Low VOC EPDM Primer. Splice area must be uniform in color, streak-free and free of globs or puddles.  
**Note:** Permeation-resistant gloves (that meet ANSI/ISEA 105-2005) are recommended when cleaners or primers are being used.
- Allow** Primer to dry until tacky but does not transfer to a dry finger touch.
- Unroll** approximately 3' of QA Seam Tape. Align release film with marked line and press tape down to bottom sheet using firm, even, hand pressure. Continue for the length of the splice. Tape roll ends must be overlapped 1". Allow top sheet to rest on release film on backside of tape.  
**Note:** A minimum of 1/8" to a maximum of 1/2" of tape must extend beyond the splice edge.
- Pull** release film from QA Seam Tape beneath the top sheet and allow the top sheet to fall freely onto exposed tape.

6. **Roll** the top sheet onto the mating surface and assemble the seam with hand pressure by wiping toward the splice edge. Roll the splice with a 2-inch wide steel roller, using positive pressure toward the outer edge of the splice.
7. **Clean the dry** splice edge with Weathered Membrane Cleaner.
8. **Apply** a 5/16-inch diameter bead of VersiGard Lap Sealant to completely cover the splice edge and feather.



DIMENSION	mm		DIMENSION	mm			
(A)	1/8"	3	MIN.	(A)	1/2"	13	MAX.

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