## **ENVIRONMENTAL PRODUCT DECLARATION**

According to ISO 14025 and ISO 21930:2017

# VERSIGARD® WHITE EPDM NON-REINFORCED QA

VERSICO ROOFING SYSTEMS



A division of Carlisle Construction Materials LLC, Versico was formed through the acquisition of a major single-ply roofing supplier in 1993. With decades of experience in the single-ply roofing industry, Versico strives to provide the highest quality, longest-lasting and most efficient roofing products in the industry. Versico provides its customers with superior roofing systems and services through a select network of manufacturer's representatives, distributors, and contractors.

Today, Versico's diverse product offering includes EPDM, TPO, PVC, and fleece-backed roofing membranes, as well as a full line of labor-saving flashing accessories and insulation. Backed by industry-leading warranties, Versico's products have been installed on a wide range of buildings including schools, hospitals, warehouses, and cold storage facilities.



**Issue Date:** 05-30-2025

**Valid Until:** 05-30-2030

**Declaration Number: ASTM-EPD1017** 

Declaration Number: ASTM-EPD1017



#### **E**NVIRONMENTAL **P**RODUCT **D**ECLARATION

#### VERSIGARD® WHITE EPDM NON-REINFORCED QA

## **DECLARATION INFORMATION**

Declaration		
Program Opera Company:	tor: ASTM International  Versico Roofing Systems, a division of Carlisle Construction Materials 1285 Ritner Hwy Carlisle, PA 17013  www.versico.com	INTERNATIONAL www.astm.org
Product Inform		Validity / Applicability
Membrane Product Definit	ion: White Self-Adhering ethylene propylene (EPDM) Single-Ply Roofing Membrane	<b>Period of Validity:</b> This declaration is valid for a period of 5 years from the date of publication.
	e: Business-to-business (B2B)	Geographic Scope: North America
<ul><li>PCR Reference:</li><li>Core PCR:</li><li>Sub-categ Roofing M</li></ul>	ISO 21930:2017 (ISO 21930, 2017) ory PCR: Product Category Rules for Single-Ply lembranes (NSF International, 2024) cation and/or Characteristics	<ul> <li>PCR Review was conducted by:</li> <li>Thomas P. Gloria, Ph.D., Industrial Ecology Consultants</li> <li>Bill Stough, Sustainable Research Group</li> <li>Jack Geibig, EcoForm</li> </ul>
Content of the		s is used as a roofing protective layer for building applications.
<ul><li>Details of</li><li>Descriptio</li><li>Life Cycle</li></ul>	efinition and physical building-related data raw materials and material origin n of how the product is manufactured Assessment results environmental information	
	was independently verified in accordance with ISO 14025:2006 and the reference PCR by M International.	□ Internal ⊠ External
	sessment was independently verified in accordance oria, Ph.D., Industrial Ecology Consultants.	e with ISO 21930:2017 and ISO 14044:2006 and the reference PCR
comparisons. The rest the construction leve	sults shall not be used for comparisons without knowledge of	on a declared unit and therefore do not provide sufficient information to establish how the physical properties of the EPDM product impact the precise function at unctional unit basis before any comparison is attempted. See Section 3.10 for nt programs (ISO 14025) may not be comparable.



## ENVIRONMENTAL PRODUCT DECLARATION VERSIGARD® WHITE EPDM NON-REINFORCED QA

### **EPD SUMMARY**

This document is a Type III environmental product declaration by Versico Roofing Systems that is certified by ASTM International (ASTM) as conforming to the requirements of ISO 21930 and ISO 14025. ASTM has assessed that the Life Cycle Assessment (LCA) information fulfills the requirements of ISO 14040 in accordance with the instructions listed in the referenced product category rules. The intent of this document is to further the development of environmentally compatible and sustainable construction methods by providing comprehensive environmental information related to potential impacts in accordance with international standards.

No comparisons or benchmarking are included in this EPD. Environmental declarations from different programs based upon differing PCRs may not be comparable. In general, EPDs may not be used for comparability purposes when not considered in a construction works context. Given that the PCR ensures products meet the same functional requirements, comparability is permissible provided the information given for such comparison is transparent and the limitations of comparability explained. Only EPDs prepared from cradle-to-grave life cycle results, and based on the same function, quantified by the same functional unit, and taking account of replacement based on the product reference service life (RSL) relative to an assumed building service life, can be used to assist purchasers and users in making informed comparisons between products. When comparing EPDs created using this PCR, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to different results for upstream or downstream of the life cycle stages declared.

#### Scope and Boundaries of the Life Cycle Assessment

The Life Cycle Assessment (LCA) was performed according to ISO 14040 (ISO 14040, 2020a) and ISO 14044 (ISO 14044, 2020b) following the requirements of the ASTM EPD Program instructions and the referenced PCR.

System Boundary: Cradle-to-gate

**Declared Unit:** 1 m<sup>2</sup> of single-ply roofing membrane for a stated product thickness. Environmental performance results therefore represent Versico's average production of EPDM, normalized to 1 m<sup>2</sup>.



## ENVIRONMENTAL PRODUCT DECLARATION VERSIGARD® WHITE EPDM NON-REINFORCED QA

## **GENERAL INFORMATION**

#### **DESCRIPTION OF COMPANY/ORGANIZATION**

A division of Carlisle Construction Materials LLC, Versico was formed through the acquisition of a major single-ply roofing supplier in 1993. With decades of experience in the single-ply roofing industry, Versico strives to provide the highest quality, longest-lasting and most efficient roofing products in the industry. Versico provides its customers with superior roofing systems and services through a select network of manufacturer's representatives, distributors, and contractors.

Today, Versico's diverse product offering includes EPDM, TPO, PVC, and fleece-backed roofing membranes, as well as a full line of labor-saving flashing accessories and insulation. Backed by industry-leading warranties, Versico's products have been installed on a wide range of buildings including schools, hospitals, warehouses, and cold storage facilities.

#### **PRODUCT DESCRIPTION**

Versico's VersiGard® White EPDM Non-Reinforced Quick Applied (QA) is a non-reinforced membrane featuring a factory-applied, 100%-solid, pressure-sensitive adhesive that qualifies as low-VOC and emits no solvent-related odors. Like all Versico EPDM membranes, VersiGard® White EPDM QA offers outstanding hail resistance, superior weatherability, and an industry-leading total radiant exposure rating of 25,200 kJ/m² for reflective membranes—ensuring long-term durability without cracking or crazing. Exclusively available in a 60-mil thickness, this self-adhering membrane simplifies installation, reducing time and labor while ensuring consistent adhesive coverage for a secure bond. White EPDM QA meets cool roof requirements for both initial and aged solar reflectance and thermal emittance, making it an ideal choice for projects in warmer climates.

The product system evaluated in this report is a single-ply VersiGard® White Non-Reinforced QA EPDM roofing membrane at the finished nominal thicknesses produced by Versico. See Table 1 for membrane specification and standard.

Roof System Component

Peclared Thickness and Weight, per declared unit

VersiGard® White Non-Reinforced QA ethylene propylene diene monomer (EPDM)

Roof System Component

Declared Thickness and Weight, per declared unit

Standard

ASTM D4637

Table 1 Membrane specification and standard

### PRODUCT AVERAGE

4

The 2023 production data used in this EPD considers VersiGard® White Non-Reinforced QA roofing membranes produced by Versico in one (1) site in North America during the year, Carlisle, PA.

#### **APPLICATION**

Versico VersiGard® White EPDM Non-Reinforced QA membrane features a factory-applied adhesive approved for application on DensDeck® Prime, SECUROCK®, SecurShield®, SecurShield® HD, SecurShield® HD Plus, and clean concrete. It can also be applied to vertical walls when primed with CAV-GRIP® 3V or bonding adhesive and allowed to flash off. For optimal performance, installation is only permitted when the ambient temperature is 32°F (0°C) and rising. The factory-applied adhesive is protected by a split release liner, allowing precise positioning before securing the membrane in place. This adhesive ensures consistent coverage, eliminates VOCs and odors, and is an ideal solution for occupied buildings or projects in VOC-regulated areas. Additionally, the white surface makes VersiGard White EPDM Non-Reinforced QA particularly well-suited for cooling-dominated southern climates, where its high reflectivity enhances energy efficiency.

#### **MATERIAL COMPOSITION**

Table 2 shows the input material for VersiGard® White Non-Reinforced QA roofing membranes and their material percentages for the three membrane thicknesses.

Table 2 Composition of VersiGard® White Non-Reinforced QA EPDM roofing membra	Table 2 Composition	of VersiGard®	White Non-Reinfor	rced QA EPDM i	roofina membran-
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Material	60 mil % Composition
Base polymer (EPDM)	29
Filler	26
Paraffinic oil	14
Pigment	11
Fire retardant	10
Adhesive	5
Activator	1
Others	3

#### **M**ANUFACTURING

Production of VersiGard® White EPDM Non-Reinforced QA membranes begins with EPDM rubber in the form of pellets and uncured scrap. These materials are blended with additives such as accelerators, fire retardants, and pigments to create a uniform compound. The compound is then co-extruded, simultaneously forming a white top ply and a black bottom ply into a dual-layer sheet before vulcanization. The membrane is pressed to the specified thickness, trimmed, and rolled into a master roll, with uncured trimmings recycled back into the process. Master rolls are then vulcanized using heat and pressure to crosslink the rubber, giving it enhanced durability and elasticity. After vulcanization, the rolls are processed through specialized equipment to laminate a pressure-sensitive adhesive and a release liner to the bottom of the sheet. The finished rolls are cut to the specified length, rolled onto a cardboard core, and packaged for shipment.

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VERSIGARD® WHITE EPDM NON-REINFORCED QA

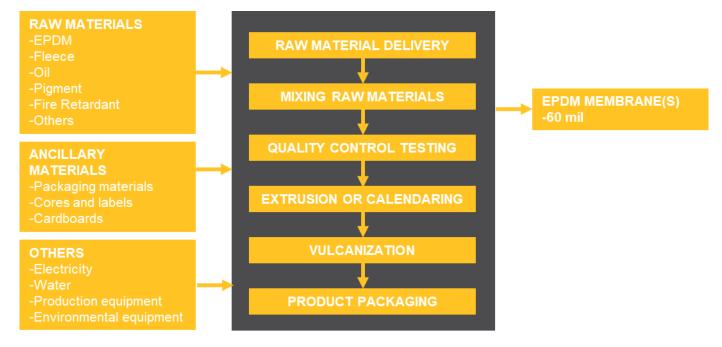


Figure 1: VersiGard® Non-Reinforced QA EPDM production process map

#### **TRANSPORTATION**

Primary data on inbound transportation of raw materials and packaging material were collected. These materials included base resin (EPDM), fillers, pigments, curatives, activators, processing aids, etc. Transportation to the customer or construction site is outside the scope of this EPD.

#### **PRODUCT INSTALLATION**

Installation is outside the scope of this EPD.

#### USE

Product use is outside the scope of this EPD.

#### REUSE, RECYCLING, AND ENERGY RECOVERY

Product reuse, recycling, and energy recovery are outside the scope of this EPD.

**Recycling** – Versico has increased the level of internal recycled content used in its EPDM membranes and continues to research means to increase the use of recycled materials into the membrane and various rubber-related accessory products like rubber pavers and walkway pads.



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Energy efficiency – As a leader in the commercial roofing industry and as one of the largest manufacturers of both white and dark-colored roofing membranes, Versico continues to advocate for careful selection of roofing systems based on a building's design, location, and climatic conditions. In general, the heating penalty of white reflective membranes exceeds the cooling benefit in heating-dominated central and northern climates. In the central and northern climates, heating costs are typically 3-5 times greater than cooling costs, and in these climates a dark-colored EPDM roof is typically the energy-efficient choice. In cooling-dominated southern climates, a white/reflective roofing material such as Versico's VersiGard White EPDM or a ballasted EPDM roof are typically the most energy-efficient choices. The use of insulating ½" cover boards provide an added 2.5 R-value as another means to enhance the energy efficiency of roofing systems. Cover boards also improve the durability and wind uplift resistance of the roofing assembly. Specifying the use of multiple layers of insulation with staggered joints in lieu of a single thick layer of insulation is proven to be more thermally efficient and is also required by energy code. Utilizing urethane insulation adhesives to bond the top layer of insulation to the layers below in lieu of metal fasteners and metal insulation plates, eliminates the R-value loss from thermal bridging.

#### **DISPOSAL**

Product disposal is outside the scope of this EPD.



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### **METHODOLOGICAL FRAMEWORK**

#### **DECLARED UNIT**

The declared unit for this study is:

#### 1 m<sup>2</sup> of single-ply roofing membrane for a stated product thickness.

Environmental performance results therefore represent Versico's average production of EPDM, normalized to  $1 \text{ m}^2$ . The reference service life is not specified. Since the use stage is not included in the system boundary, no reference service life needs to be defined for the analysis.

#### SYSTEM BOUNDARY

System boundaries are summarized in Figure 2 for the analysis scope of "cradle-to-gate". Excluded modules are indicated by "MND" or "module not declared". As is typical of works of life cycle assessment, the construction and maintenance of capital equipment, such as production equipment in the manufacturing stage, are not included in the system, nor are human labor and employee commute. The use stage is also outside the scope of this study.

PRODUCT STAGE		CONSTRUCT- ION PROCESS STAGE		USE STAGE				Εſ	ND OF LI	FE STAC	ЭΕ	BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY				
Raw material supply	Transport	Manufacturing	Transport from gate to site	Assembly/Install	nse	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use During Product Use	Building Operational Water Use During Product Use	Deconstruction	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling Potential
<b>A</b> 1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
Χ	Х	Χ	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

Figure 2 Life cycle stages included in system boundary

#### **CUT-OFF RULES**

No cut-off criteria had to be applied for this study. All available energy and material flow data were included in the model.

#### **DATA SOURCES**

The LCA model was created using the LCA FE software system for life cycle engineering, version 2024.1, developed by Sphera (Sphera, 2023). Background life cycle inventory data for raw materials and processes were obtained from the MLC 2024.1 database. Primary manufacturing data were provided by the participating companies.



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#### **DATA QUALITY**

As the majority of the relevant foreground data are measured data or calculated based on primary information sources of the owner of the technology, precision is considered to be high. Seasonal variations were balanced out by using yearly averages that were then weighted according to each manufacturer's production volume. All background data are sourced from the MLC databases with the documented precision. Each foreground process was checked for mass balance and completeness of the emission inventory. No data were knowingly omitted. Completeness of foreground unit process data is considered to be high. All background data are sourced from the MLC databases with the documented completeness.

#### **GEOGRAPHICAL COVERAGE**

This study represents production at Versico facilities in North America. As such, the geographical coverage for this study is based on North American system boundaries for all processes and products.

Regionally specific datasets, where available, were used to represent each manufacturing location's energy consumption. Proxy datasets were used as needed for raw material inputs to address lack of data for a specific material or for a specific geographical region. These proxy datasets were chosen for their technological representativeness of the actual materials.

#### **PERIOD UNDER REVIEW**

Primary data collected represent production during the 2023 calendar year. This analysis is intended to represent production in 2023. All secondary data come from the MLC Professional databases and are representative of the years 2019 to 2023, with the exception of a dataset from 2003 and a packaging dataset from 2017.

#### **ALLOCATION**

As several products are often manufactured at the same plant, participating facilities used mass allocation to report data. Mass allocation was selected since the environmental burden in the industrial process (energy consumption, emissions, etc.) is primarily governed by the mass throughput of each sub-process.

Allocation of background data (energy and materials) taken from the MLC 2024 databases is documented online at <a href="https://sphera.com/product-sustainability-gabi-data-search/">https://sphera.com/product-sustainability-gabi-data-search/</a>.

#### **ESTIMATES AND ASSUMPTIONS**

In cases where no matching life cycle inventories were available to represent a flow, proxy data were applied based on conservative assumptions regarding environmental impacts.

## **LIFE CYCLE ASSESSMENT RESULTS**

The environmental impacts associated with the Non-Reinforced roofing membrane is presented below in Table 3 for the production stage (A1-A3).



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Table 3: Environmental impact indicators for 1m<sup>2</sup> of VersiGard® White Non-Reinforced QA EPDM Roofing Membrane

Indicator	A1	A2	A3	Total				
Global Warming Potential [kg CO <sub>2</sub> eq.] – IPCC AR6								
EPDM NR SAT 60	6.67E+00	1.67E-01	6.74E-01	7.51E+00				
Global Warming Potent	Global Warming Potential [kg CO <sub>2</sub> eq.] – IPCC AR5							
EPDM NR SAT 60	6.89E+00	3.21E-01	1.31E+00	8.52E+00				
Ozone Depletion Poten	Ozone Depletion Potential [kg CFC-11 eq.]							
EPDM NR SAT 60	6.23E-11	9.65E-16	1.63E-12	6.40E-11				
Acidification Potential [	kg SO2 eq.]							
EPDM NR SAT 60	2.71E-02	1.64E-03	1.41E-03	3.02E-02				
<b>Eutrophication Potentia</b>	Eutrophication Potential [kg N eq.]							
EPDM NR SAT 60	4.43E-03	1.26E-04	1.54E-04	4.71E-03				
Smog Formation Poten	Smog Formation Potential [kg O₃ eq.] <sup>[1]</sup>							
EPDM NR SAT 60	2.65E-01	3.77E-02	2.30E-02	3.25E-01				

<sup>&</sup>lt;sup>111</sup> Per ISO 21930, TRACI Smog Formation Potential (SFP) is reported instead of Photochemical Oxidant Creation Potential (POCP)

The resource use associated with the Non-Reinforced roofing membrane is presented below in Table 4 for the production stage (A1-A3). Emerging LCA impact categories and inventory items are still under development and can have high levels of uncertainty that preclude international acceptance pending further development. Use caution when interpreting data in these categories (NSF International, 2024).

Table 4: Resource use indicators for 1m<sup>2</sup> of VersiGard® White Non-Reinforced QA EPDM Single-Ply Roofing Membrane

Indicator	A1	A2	A3	Total				
Renewable Primary Energy Resources as Energy (RPRE) [MJ]								
EPDM NR SAT 60	1.32E+01	1.87E-01	4.26E+00	1.77E+01				
Renewable Primary Resources as Material (RPRM) [MJ]								
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00				
Non-Renewable Primary Resources as Energy (fuel) (NRPRE) [MJ]								
EPDM NR SAT 60	1.08E+02	4.39E+00	2.09E+01	1.34E+02				
Non-Renewable Primar	y Resources as Material (	NRPRM) [MJ]						
EPDM NR SAT 60	4.33E+01	0.00E+00	3.22E-01	4.36E+01				
Secondary Materials (SM) [kg]								
EPDM NR SAT 60	0.00E+00	0.00E+00	9.00E-02	9.00E-02				
Renewable Secondary F	Renewable Secondary Fuels (RSF) [MJ]							



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EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Non-Renewable Secondary Fuels (NRSF) [MJ]									
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Recovered Energy (RE) [MJ LHV]*									
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Abiotic Depletion Poter	Abiotic Depletion Potential for Fossil Resources (ADP <sub>fossil</sub> ) [MJ]*								
EPDM NR SAT 60	1.46E+02	4.35E+00	1.67E+01	1.67E+02					
Use of Net Freshwater Resources (FW) [m³]*									
EPDM NR SAT 60	2.54E-01	6.18E-04	7.49E-03	2.62E-01					

<sup>\*</sup>Emerging LCA impact categories and inventory items are still under development and can have high levels of uncertainty that preclude international acceptance pending further development. Use caution when interpreting data in this category.

The waste generation associated with the Non-Reinforced roofing membrane is presented below in Table 5 for the production stage (A1-A3). Emerging LCA impact categories and inventory items are still under development and can have high levels of uncertainty that preclude international acceptance pending further development. Use caution when interpreting data in these categories (NSF International, 2024).

Table 5: Output flows & waste categories for 1m<sup>2</sup> of VersiGard® White Non-Reinforced QA EPDM Single-Ply Roofing Membrane

Indicator	A1	A2	A3	Total					
Hazardous Waste Disposed (HWD) [kg]									
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Non-Hazardous Waste Disposed (NHWD) [kg]									
EPDM NR SAT 60	0.00E+00	0.00E+00	3.99E-01	3.99E-01					
High-Level Radioactive	Waste, Conditioned, to F	inal Repository (HLRW) [	kg]*						
EPDM NR SAT 60	1.88E-06	1.55E-08	1.91E-06	3.81E-06					
Intermediate- and Low-	Intermediate- and Low-Level Radioactive Waste, Conditioned, to Final Repository (ILLRW) [kg]*								
EPDM NR SAT 60	1.90E-03	1.30E-05	1.60E-03	3.51E-03					
Components for Re-Use	e (CRU) [kg]*								
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Materials for Recycling	(MR) [kg]*								
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Materials for Energy Re	Materials for Energy Recovery (MER) [kg]*								
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Recovered Energy Expo	Recovered Energy Exported from the Product System (EE) [MJ LHV]*								
EPDM NR SAT 60	0.00E+00	0.00E+00	0.00E+00	0.00E+00					

<sup>\*</sup>Emerging LCA impact categories and inventory items are still under development and can have high levels of uncertainty that preclude international



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acceptance pending further development. Use caution when interpreting data in this category.

### **LCA** INTERPRETATION

The major contributor for almost every impact is raw materials (A1) followed by manufacturing (A3) and inbound transportation (A2). The EPDM material itself contributed the most to AR6 GWP (35%) and SFP (27%) impacts. The manufacturing electricity (11%) and adhesive (10%) were found to be the second highest contributor to AR6 GWP. Impacts on ODP were driven by white mineral oil (97%), EP impacts were driven by adhesive (70%), and AP impacts were driven by titanium dioxide (31%).

The EPDs are comparable only if they comply with the document ISO 21930, use the same sub-category PCR where applicable, include all relevant information modules and are based on equivalent scenarios with respect to the context of construction works.

### **ADDITIONAL ENVIRONMENTAL INFORMATION**

**Proven weatherability** – a key theme in commercial construction today is sustainability and long-term service life. Physical property testing of 30-year-old EPDM membranes removed from well-maintained roofs revealed that their tensile strength and tear resistance actually improved over time. Remarkably, the 30-year-old membrane remained highly pliable and flexible, retaining its ability to expand and contract with building movement and temperature fluctuations. Equally significant is the membrane's continued repairability, as it can still be spliced using primers and pressure-sensitive flashings, further extending the roof's lifespan.

**UV resistance** – EPDM has excellent UV resistance as evidenced in the ASTM G155 Accelerated Xenon Arc Weathering test. White non-reinforced EPDM has a UV resistance of 25,200 kJ/m2, higher than alternative reflective thermoplastic membranes.

**Amount of weathering material –** Non-reinforced EPDM membrane has over twice the weathering material thickness as an internally reinforced thermoset (EPDM) or thermoplastic (TPO & PVC) membrane. In a 60-mil non-reinforced EPDM there are 60 mils of weathering material. In a 60-mil internally reinforced membrane, there are only 20 to 24 mils of weathering material over the scrim. The mode of eventual failure on reinforced membranes is typically when the scrim begins showing through the surface of the membrane and begins taking on water.

**Resistance to unwanted biological growth** – All of Versico's EPDM roofing membranes provide excellent resistance to unwanted biological growth on the surface of the membrane. In the ASTM G21 test, conducted by MicroStar Labs, our EPDM roofing membranes achieved a zero or "no growth" rating (#R2014-131).

**Resistance to hail damage** – EPDM roofing membranes have had a great track record of resisting hail damage and keeping water out of buildings, which can cut down on owners' financial losses considerably. EPDM stays flexible throughout its life span, providing good hail resistance even at the end of its warranty term. Adhered systems, with a minimum 1.5 mm



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reinforced EPDM membrane over a cover board set in adhesive, are a practical way to eliminate potential hail damage due to a direct hail strike over a fastener or plate that is required in a mechanically fastened system.

**Cool Roof Designation –** Versico's VersiGard White EPDM surpasses energy code requirements for solar reflectance, 3-year aged solar reflectance, and thermal emittance, making it an ideal 'cool roof' solution for ASHRAE Climate Zones 1-3.

**Pollution abatement equipment –** Carlisle Construction Materials' EPDM plants employ pollution abatement equipment, including scrubbers, filter boxes, and dust collectors.

Clarification regarding hazardous substances in the final product – Per EPDM Safety Data Sheet (SDS), the finished product declared in this EPD is considered "Articles" as defined in OSHA Hazardous Communication Standard. This finished product is not hazardous and does not contain any regulated substances of very high concern. No components in the product are listed under the SDS Section 15 Regulatory Requirements, specifically U.S. Federal Regulations, SARA Section 311/312, California Prop 65, or the Canadian WHMIS IDL. Information on ingredients and regulatory information can be found in the SDS.

**Clarification regarding release of dangerous substances from the final product –** The finished product declared in the EPD is classified as an article with no release of dangerous substances.

**Clarification regarding hazardous waste generated during production –** No hazardous waste is generated during the production of the product declared in this EPD.

**Responsible operations** – All of Carlisle Construction Materials' membrane plants are 3rd party certified to ISO 14001 Environmental Management System Standards. Third-party ISO 14001 certification provides independent assurance that our environmental management system (EMS) meets the standard's stringent requirements, demonstrating a commitment to environmental responsibility and continuous improvement.

### **REFERENCES**

- ASTM International. (2020). ASTM Program Operator for Product Category Rules (PCR) and Environmental Product Declarations (EPDs), General Program Instructions, Version: 8.0, revised 04/29/20.
- ASTM International. (2021). ASTM D4637/D4637M-15(2021)e1: Standard specification for EPDM sheet used in single-ply roof membrane.
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- ISO 14040. (2020a). *ISO 14040/Amd.1:2020: Environmental management Life cycle assessment Principles and framework.* Geneva: International Organization for Standardization.



#### **E**NVIRONMENTAL **P**RODUCT **D**ECLARATION

#### VERSIGARD® WHITE EPDM NON-REINFORCED QA

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- Sphera. (2023). *MLC Database Documentation*. Retrieved from Sphera: https://sphera.com/product-sustainability-gabi-data-search/

### **CONTACT INFORMATION**

### **STUDY COMMISSIONER**



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#### LCA PRACTITIONER



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