Siplast® WALLcontrol™ Liquid Applied System

Submittal Packet

09-2024 Version

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siplast®
With you every step of the way

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WALLcontrol™

Air, Water and Thermal Solutions for Every Need

Siplast® WALLcontrol™ Systems provide high-performance air, water, and thermal management solutions for vertical walls on commercial buildings and enable complex transitions from roofing and waterproofing systems. Continuity of these systems is critical to achieving durable designs, energy-efficient performance, and enabling occupant comfort as part of holistic design solutions.

AIR & WATER BARRIER MEMBRANES

WALLcontrol MODIFIED SILICONE (STPE) VP LIQUID AWB
A vapor permeable, liquid-applied, single-component, silyl-terminated polyether (STPE) moisture-cure air and water-resistive barrier for commercial wall systems.

WALLcontrol MONOLITH™ VP ADHERED AWB
A self-adhesive, high-temperature stable, low-temperature application, UV resistant, vapor permeable, primerless air and water resistive membrane for commercial applications.

WALLcontrol REINFORCED ALUMINUM BUTYL-ADHERED AWB
A self-adhesive, high-temperature stable, low-temperature application, UV resistant, non-vapor permeable, primerless air and water-resistive membrane for commercial wall systems.

WALL INSULATION

WALLcontrol POLYISO FOIL-FACED INSULATION
A high-performance rigid wall insulation, combining high R-value, Class A foam core, a reflective reinforced foil facer on one side and a white reinforced acrylic-coated aluminum facer on the other side.

WALLcontrol POLYISO GLASS-FACED INSULATION
A high-performance rigid wall insulation combining high R-value, Class A foam core, and durable coated glass facers. One side of the product is dark gray for open joint rainscreen applications.

AIR & WATER BARRIER ACCESSORIES

WALLcontrol MODIFIED SILICONE (STPE) VP LIQUID FLASHING
A liquid-applied, single-component, silyl-terminated polyether (STPE) moisture cure air barrier accessory for rough openings and joints for commercial wall systems.

WALLcontrol STAINLESS STEEL BUTYL-ADHERED FLASHING
A hand formable and trimmable flashing (with standard tools) that provides robust puncture, tear, UV resistance, and is compatible with many substrates and adjoining building enclosure materials.

WALLcontrol REINFORCED ALUMINUM BUTYL-ADHERED FLASHING
A self-adhesive, high-temperature stable, low-temperature application, UV resistant, non-vapor permeable, primerless, rough opening and detail flashing for commercial wall systems.

PS-715 NS ELASTOMERIC SEALANT
A moisture-curing, non-slump sealant designed for applications where dynamic joint movement, adhering dissimilar materials, and excellent low temperature durability are required.

PRO PRIMER AC
A single component, water-based, acrylic latex, general purpose primer used as a bleed-blocker, adhesion promoter and corrosion inhibitor.

WALLcontrol™

Air, Water and Thermal Solutions for Every Need

			Air & Water Barrier Membranes			Air & Water Barrier Accessories			Wall Insulation	
			WALLcontrol Modified Silicone (STPE) VP Liquid AWB	WALLcontrol Monolith VP Adhered AWB	WALLcontrol Reinforced Aluminum Butyl-Adhered AWB	WALLcontrol Modified Silicone (STPE) VP Liquid Flashing	WALLcontrol Stainless Steel Butyl-Adhered Flashing	WALLcontrol Reinforced Aluminum Butyl-Adhered Flashing	WALLcontrol Polyiso Foil-Faced Insulation	WALLcontrol Polyiso Glass-Faced Insulation
Air Control	Materials & Assemblies	Air barrier per ASTM E2178 and ASTM E2357, meets CAN/ULC S741 and S742	X	X	X	X	X	X	X*	
	ABAA Evaluated	Product is part of an ABAA evaluated system	X	X	X	X	X	X		
Water Control	Materials & Assemblies	Water-resistive barrier ICC ES Acceptance Criteria AC38 or AC212	X	X	X	X	X	X		
	Flashings & Penetrations	AAMA 711 or AAMA 714 application performance		X	X	X	X	X		
Vapor Control	Vapor Permeable	Greater than 5 US perms per ASTM E96, method A	X	X		X				
	Vapor Impermeable	Less than 1 US perm per ASTM E96, method A			X		X	X	X	X**
Thermal Control	High R-Value	Greater than R-6 per inch by ASTM C518							X	X
	Low Water Absorption	Water absoprtion <1% by volume per ASTM C209							X	X
Fire Control	NFPA 285	Product is part of a compliance system and/or meets 2015 IBC 1403.5 exception #2 criteria	X	X	X	X	X	X	X	X
	Class A Rated	ASTM E84 Class A fire rating; flame-spread of 0-25 and smoke developed between 0-450	X	X	X	X	X	X	X	X
Control Features	Low Temp Install	Primerless performance at 20°F (-7°C) and rising	X	X	X	X	X	X	X	X
	High Temp Performance	Stable and adhesion performance up to 240°F (115°C)	X	X	X	X	X	X	X	X
	UV Resistant	6 months or greater approved exposure during construction process	X	X	X	X	X	X	X	X
	Low VOC	Liquid material less than 50g/L VOC, adhered without VOC requirements, or Greenguard Gold	X	X	X	X	X	X	X	X
	Primerless Application	3rd Party testing and approvals passes without primer application	X	X	X	X	X	X		
	Compatible	Compatible across the product line and common adjoining roofing and waterproofing systems	X	X	X	X	X	X	X	X

Consult updated Commercial Product Data Sheets for more details and the most recent information.

*Meets IECC and ASHRAE 90.1 prescriptive criteria as an air barrier material

**1" thick board is 1.2 perms; thicker boards are < 1 perm

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Scan QR code to view more Siplast Building Enclosure products

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WALLcontrol™ MODIFIED SILICONE (STPE) VP LIQUID AWB

Commercial Product Data Sheet

Siplast® WALLcontrol™ Modified Silicone VP Liquid AWB is a vapor permeable, liquid applied, single-component, silyl-terminated polyether (STPE) moisture-cure air and water-resistive barrier for commercial wall systems. During application, the high solids formulation is resistant to wash-off when curing, and has minimal dry film shrinkage.

USES:
AIR BARRIER MEMBRANE
WATER-RESISTIVE BARRIER
VAPOR PERMEABLE

Certifications & Evaluations

abaa EVALUATED · ICC-ES AC212 Compliant · NFPA 285 Compliant · ETL LISTED US Intertek

Composition	Liquid applied, high-solids, moisture cure, single-component, silyl-terminated polyether (STPE) membrane
Packaging	5 gallon pail
Coverage Rate*	60 to 80 sf/gallon

*When applied at 20 mil wet thickness. Dependent on substrate conditions (temperature and moisture), substrate porosity, application.

Energy Efficiency & Sustainability

As part of a designed building enclosure system, this product can contribute towards LEED “Optimize Energy Performance” and IEQ “Low Emitting Materials.”

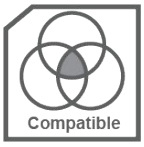
PRODUCT INFORMATION

Application and Features

Refer to the Siplast Installation Guide for detailed application information of Siplast WALLcontrol Modified Silicone (STPE) VP Liquid AWB.

Control Category

Features



Storage, Handling, and Packaging

Siplast WALLcontrol Modified Silicone (STPE) VP Liquid products should be stored in a clean, dry environment, 40°F to 90°F (5°C to 32°C). The shelf life is 12 months for an unopened container from the date of manufacture. Store opened containers with a plastic protective liner to slow cure rate. Before reusing a previously opened container, first remove any cured material that may have formed (skinned over) at the top. Do not double stack pallets. Dispose of unused product and containers in accordance with local, state and federal regulations.

Pails Per Pallet: 36

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WALLcontrol™ MODIFIED SILICONE (STPE) LIQUID AWB

Physical and Mechanical Properties

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Property (as Manufactured)		Test Method	Min. Value	Typical Values
AIR CONTROL	Material Air Permeance	ASTM E2178 CAN/ULC S741	< 0.004 cfm/sf	Pass
	Assembly Air Permeance	ASTM E2357 CAN/ULC S742	< 0.004 cfm/sf	Pass Class A1
WATER CONTROL	Water-Resistive Barrier Acceptance Criteria	ICC ES AC 212	Pass	Pass
	Material Water Penetration Resistance	AATCC 127	No Leakage	55 cm for 5 hrs
	Assembly Water Resistance	ASTM E331	No Leakage	Pass @ >9 psf
VAPOR CONTROL	Water Vapor Permeability at 20 mils	ASTM E96/E96M	Method A / B	9 / 15 US Perms
	Water Vapor Permeability at 40 mils	ASTM E96/E96M	Method A / B	7 / 14 US Perms
FIRE CONTROL	Surface Burning Characteristics	ASTM E84	Pass	Class A 20 Flame Spread 60 Smoke Developed
	Assembly Flame Propagation	NFPA 285	Pass	Multiple Assemblies
PHYSICAL PROPERTIES	Skin over time	50% R.H. @ 70°F	-	1-2 hrs.
	Volatile Organic Compounds (VOC)	ASTM C1250	-	<40 g/L
	Solids	ASTM D2369	-	97%
	Hardness	ASTM D2240	Shore A	32
	Elongation	ASTM D412, die C	≥350%	Pass
	Peel Adhesion	ASTM C794	≥5 pli	Pass
	Pull Adhesion	ASTM D4541	≥16 psi	Pass
	Low Temperature Crack Bridging Ability	ASTM C1305	No visible cracking	Pass @ 20 mils
	Weathering	ICC-ES AC212 AATCC	55cm for 5 hrs	Pass
	Freeze-Thaw Resistance	ASTM E2484 Method A	No cracking, crazing, or erosion	Pass

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.

WARRANTY INFORMATION

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WALLcontrol™ MODIFIED SILICONE (STPE) VP LIQUID FLASHING

Commercial Product Data Sheet

Siplast® WALLcontrol™ Modified Silicone (STPE) VP Liquid Flashing is a vapor permeable, liquid-applied air barrier accessory for commercial wall systems. This liquid flashing is a single component silyl-terminated polyether (STPE) moisture cure technology. During application, the high solids formulation is resistant to wash-off when curing, and has minimal dry film shrinkage.

USES:
WINDOW & DOOR FLASHING
SUBSTRATE JOINT TREATMENT
WALL TRANSITIONS & PENETRATIONS FLASHING

Certifications & Evaluations

ICC-ES AC212 Compliant
AAMA 714 Evaluated
ASTM C920 Class 35

Composition	Single-component, silyl-terminated polyether (STPE)
Packaging	20 oz sausage packs (12 count) 3 oz tipped sausages (24 count)
Coverage Rate*	Troweled at 60 mils thickness: 2 inch wide, 24 ft long 6 in wide, 8 ft long 8 in wide, 6 ft long Sealant dimensions: ¼ in x ¼ in joint, 48 ft long ¼ in x ½ in joint, 24 ft long ½ in x ½ in joint, 12 ft long

*Per 20 oz sausage pack. Estimates only. Actual coverage depends on substrate conditions (temperature and moisture), substrate porosity,and uniformity of application.

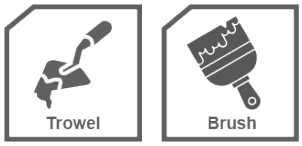
Energy Efficiency & Sustainability

As part of a designed building enclosure system, this product can contribute towards LEED “Optimize Energy Performance” and IEQ “Low Emitting Materials.”

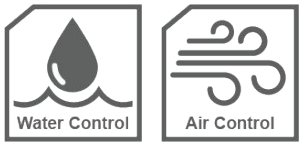
PRODUCT INFORMATION

Application and Features

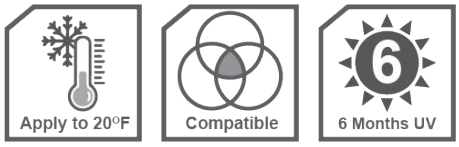
Refer to the Siplast Installation Guide for detailed application information of Siplast WALLcontrol Modified Silicone (STPE) VP Liquid Flashing.



Control Category



Features



Storage, Handling, and Packaging

Siplast WALLcontrol Modified Silicone (STPE) VP Liquid products should be stored in a clean, dry environment, 40°F to 90°F (5°C to 32°C). The shelf life is 12 months for an unopened container from the date of manufacture. Store opened containers with a plastic protective liner to slow cure rate. Do not double stack pallets. Dispose of unused product and containers in accordance with local, state and federal regulations.

Boxes per Pallet:
3 oz tipped sausages : 96
20 oz sausage packs: 72

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WALLcontrol™ MODIFIED SILICONE (STPE) LIQUID FLASHING

Physical and Mechanical Properties

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Property (as Manufactured)		Test Method	Min. Value	Typical Values
AIR CONTROL	Assembly Air Permeance (component)	ASTM E2357 CAN/ULC S742	< 0.004 cfm/sf	Pass Class A1
WATER CONTROL	Assembly Water Resistance	ASTM E331	No Leakage	Pass
	Water Penetration Resistance at Fasteners	AAMA 714 Section 5.2	No leakage	Pass
VAPOR CONTROL	Water Vapor Permeability at 40 mils	ASTM E96/E96M	Method A / B	9 / 20 US Perms
	Water Vapor Permeability at 60 mils	ASTM E96/E96M	Method A / B	6 / 13 US Perms
FIRE CONTROL	Assembly Flame Propagation	NFPA 285	Pass	Multiple Assemblies
PHYSICAL PROPERTIES	Skin over time (50% R.H. @70°F)	-	-	30-60 min.
	Adhesive Strength to Substates	ASTM C794	≥5 pli	27 pli Mortar 29 pli Plywood 25 pli CMU
	Ultraviolet (UV) Light Exposure	AAMA 714 Section 5.3	≥5 pli	18 pli Mortar
	Elevated Temperature 176°F (80°C)	AAMA 714 Section 5.4 - 7 days	≥5 pli	16 pli Mortar
	Thermal Cycling	AAMA 714 Section 5.5 - 10 days	≥5 pli	21 pli Mortar
	Dynamic Movement Capability	ASTM C719	-	+/- 35%
	Low Temperature Crack Bridging Ability	ASTM C1305	No visible cracking	Pass @ 20 mils
	Water Immersion	AAMA 714 Section 5.7	≥5 pli	21 pli Aluminum

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.

WARRANTY INFORMATION

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WALLcontrol™ REINFORCED ALUMINUM BUTYL ADHERED FLASHING

Commercial Product Data Sheet

Siplast® WALLcontrol™ Reinforced Aluminum Butyl Adhered Flashing is a 40-mil self-adhesive air barrier accessory with a high-temperature stable and low-temperature application butyl adhesive with a siliconized release liner. The membrane is a flexible, hand formable, UV resistant, primerless application. Designed for use at window and door rough openings, substrate seams and cracks, and around wall penetrations. It is highly compatible with many substrates and for commercial wall systems.

USES:
WINDOW & DOOR FLASHING
SUBSTRATE JOINT TREATMENT
WALL TRANSITIONS & PENETRATIONS FLASHING

Certifications & Evaluations

AAMA 711 Class 3

Composition	Aluminum topsheet Reinforcement film and grid Butyl adhesive Siliconized release liner	
Product Dimensions	Thickness: 40 mils (1 mm) Roll Length: 50 ft (12.2 m) Roll Widths: 4 in (100 mm) 6 in (150 mm) 9 in (230 mm) 12 in (300 mm) 18 in (457 mm)	
Packaging Box Size 13 in x 13 in x 13 in	4 in roll 6 in roll 9 in roll 12 in roll 18 in roll	12 rolls/box 8 rolls/box 4 rolls/box 4 rolls/box 2 rolls/box*

*Box size for 18 inch rolls is 6 in x 6 in x 40 in

Energy Efficiency & Sustainability

As part of a designed building enclosure system, this product can contribute towards LEED “Optimize Energy Performance” and IEQ “Low Emitting Materials.”

PRODUCT INFORMATION

Application and Features

Refer to the Siplast Installation Guide for detailed application information of Siplast WALLcontrol Reinforced Aluminum Butyl Adhered Flashing.

HIGH TEMP BUTYL Adhesive

Control Category

Water Control | Air Control | Vapor Control

Features

Apply to 20°F | Compatible | 12 Months UV

Storage, Handling, and Packaging

WALLcontrol Reinforced Aluminum AWB products should be stored between 40°F - 90°F (4.4°C -32.2°C) on a clean, flat surface in dry conditions out of direct exposure to the elements. Pallets should not be double stacked. Material should be handled so that it remains dry prior to and during installation. Use appropriate safety equipment and job-site controls during application and handling. Dispose of unused product and containers in accordance with local, state and federal regulations.

Flashing boxes per pallet: 36

Current copies of all Siplast Commercial Product Data Sheets & Safety Data Sheets are posted on our website at www.siplast.com
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WALLcontrol™ REINFORCED ALUMINUM BUTYL ADHERED FLASHING

Physical and Mechanical Properties

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Property (as Manufactured)		Test Method	Min. Value	Typical Values
AIR CONTROL	Material Air Permeance	ASTM E2178 CAN/ULC S741	< 0.004 cfm/sf	0.0002 cfm/sf
	Assembly Air Permeance	ASTM E2357 CAN/ULC S742	< 0.040 cfm/sf	0.002 cfm/sf Class A1
	ABAA Evaluation	ABAA S0008	Pass	Pass
WATER CONTROL	Water-Resistive Barrier Acceptance Criteria	ICC ES AC 38	Pass	Pass
	Material Water Penetration Resistance	AATCC 127	No Leakage	55 cm for 5 hrs
	Water Penetration Resistance at Fasteners	AAMA 711 Section 5.2	No Leakage	Pass
VAPOR CONTROL	Water Vapor Permeability	ASTM E96/E96M	Vapor Class Method A / B	Class I 0.07 / 0.05 US Perms
FIRE CONTROL	Surface Burning Characteristics	ASTM E84	Pass	Class A 5 Flame Spread 125 Smoke Developed
	Assembly Flame Propagation	NFPA 285	Pass	Multiple Assemblies
PHYSICAL PROPERTIES	Peel Adhesive Strength to Substrates	ASTM D3330	≥1.5 pli	7.0 pli Plywood 6.0 pli Aluminum 3.0 pli OSB
	Pull Adhesive Strength to Substrates	ASTM D4541	≥16 psi	31 psi Exterior gypsum 30 psi Plywood 27 psi CMU
	Accelerated UV Aging	AAMA 711 Section 5.4 - 7 days	≥1.5 pli	3.2 pli
	Elevated Temperature Exposure	AAMA 711 Section 5.5 - 7 days @ 176°F(80°C) -Level 3 Modified AAMA 711 Section 5.5 7 days @ 240°F(115°C)	≥1.5 pli ≥1.5 pli	8.5 pli Pass
	Thermal Cycling	AAMA 711 Section 5.6 - 10 days	≥1.5 pli	7.6 pli
	Gap Bridging Ability	ABAA T0004	No visible cracking	Class 1, Type B (-15 F)
	Water Immersion	AAMA 711 Section 5.8	≥1.5 pli	7.8 pli Aluminum

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.

WARRANTY INFORMATION

Siplast WALLcontrol products are backed by a limited product warranty. Visit siplast.com to see current published sample warranties, contact your local Siplast Representative, or call toll-free at (800) 922-8800 for more information.

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WALLcontrol™ STAINLESS STEEL BUTYL ADHERED FLASHING

Commercial Product Data Sheet

Siplast® WALLcontrol™ Stainless Flashing is a multi-purpose self-adhering flashing with a high temperature butyl adhesive with a siliconized release liner. It is comprised of a durable 304 stainless steel facer that is flexible, hand formable, and trimmable with standard tools while providing robust puncture, tear, and UV resistance. The butyl adhesive is highly compatible with many substrates and allows for adhesion of adjoining building enclosure materials. Contact Siplast for information on approved product uses.

USES:
WINDOW & DOOR FLASHING
SUBSTRATE JOINT TREATMENT
WALL TRANSITIONS & PENETRATIONS FLASHING

Certifications & Evaluations

AAMA 711 Class 3

Composition	2-mil flexible 304 stainless steel 4-mil polypropylene interlayer 10 mils of butyl adhesive Siliconized release liner
Roll Length	50 ft (12.2 m)
Roll Widths	6 in (150 mm) 9 in (230 mm) 12 in (300 mm) 18 in (450 mm) 24 in (610 mm) 36 in (910 mm)

Energy Efficiency & Sustainability

As part of a designed building enclosure system, this product can contribute towards LEED “Optimize Energy Performance” and IEQ “Low Emitting Materials.”

LEED Data

Post Industrial Recycled Content of Stainless Steel	60%
Post Consumer Recycled Content of Stainless Steel	0%
TOTAL Recycled Content of Stainless Steel	60%

Butyl adhesive and release liner have no recycled content.

PRODUCT INFORMATION

Application and Features

Refer to the Siplast Installation Guide for detailed application information on Siplast WALLcontrol Stainless Steel Butyl Adhered Flashing.

HIGH TEMP BUTYL Adhesive

Control Category

Water Control | Air Control | Vapor Control

Features

Apply to 20°F | Compatible | Unlimited UV

Storage, Handling, and Packaging

Siplast WALLcontrol Stainless Flashing products should be stored between 40°F - 90°F (4.4°C - 32.2°C) on a clean, flat surface in dry conditions out of direct exposure to the elements. Pallets should not be double stacked. Material should be handled so that it remains dry prior to and during installation. Use appropriate safety equipment and job-site controls during application and handling, wearing cut-resistant gloves while handling is recommended for protection from sharp edges.

Rolls Per Pallet: 30 to 180, depending on roll sizes

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WALLcontrol™ STAINLESS FLASHING

Physical and Mechanical Properties

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Property (as Manufactured)		Test Method	Min. Value	Typical Values
AIR CONTROL	Material Air Permeance	ASTM E2178	< 0.004 cfm/sf	Pass
VAPOR CONTROL	Water Vapor Permeability	ASTM E96	N/A	Class 1: <0.1 US Perms
FIRE CONTROL	Surface Burning Characteristics	ASTM E84	N/A	Class A
PHYSICAL PROPERTIES	Peel Adhesive Strength to Substrates	ASTM D3330 Method F	≥1.5 lbf/in	5.1 lbf/in Plywood 9.0 lbf/in Aluminum 3.5 lbf/in OSB 8.5 lbf/in Vinyl 6.7 lbf/in Product Surface
	Peel Adhesive Strength After Conditioning	ASTM D3330 Method F	≥1.5 lbf/in	12.7 lbf/in Accelerated Aging 16.4 lbf/in High Temperature 10.9 lbf/in Thermal Cycling 7.6 lbf/in Water Immersion
	Fastener Sealability (As Received / After Thermal cycling)	AAMA 711 Section 5.2.1	Pass / Pass	Pass / Pass
	Puncture Resistance	ASTM E154	N/A	2,500 psi
	Tensile Strength (MD psi / CMD psi)	ASTM D412	≥143 psi	> 9,100 psi / >7,000 psi
	Mold Resistance	ASTM D3273	Pass	Pass
	Wall Flashing per 2018 International Building Code (IBC), Section 1404.4	AAMA 711-20	Pass	Pass Type A (primer-less) Level 3 (176°F exposure)
	Cold Temperature Pliability	ASTM C765	Pass	Pass (20°F)
	High Temperature Stability (Topsheet + Butyl Adhesive)	ASTM D1970 Section 7.5	158°F	240°F
	Peel Adhesion After Immersion	ASTM C765	Pass	Pass

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WARRANTY INFORMATION

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PS-715 NS ELASTOMERIC SEALANT

Commercial Product Data Sheet

PS-715 NS Elastomeric Sealant is a moisture-curing, non-slump sealant designed for roofing applications where dynamic joint movement, adhering dissimilar materials, and excellent low temperature durability are required. PS-715 NS will not damage expanded polystyrene or other solvent-sensitive construction materials.

Contact Siplast for information on approved product uses.

USES:
SEALANT

Standards	Canadian Spec CAN 19, 13-M82
Color	Limestone Gray
Shelf Life	1 year
VOC Content	<15 g/L
Service Temp. Range	40°F – 200°F (4°C – 93°C)
Coverage	Linear Feet per 28 oz Cartridge

Coverage:

Depth \ Width	⅛″	¼″	⅜″
⅛″	288	145	95
¼″		71	58
⅜″			32

PRODUCT INFORMATION

Application

Refer to the applicable Siplast Technical Guide for detailed application information.

Storage and Handling

All Siplast sealant products should be stored on a clean, flat surface. Care should be taken that cartridges are not crushed or punctured. All roofing products should be stored in a dry, cool place out of direct exposure to the elements. Material should be handled so that it remains dry prior to and during installation. Storage under high-temperature/humidity conditions will significantly reduce the shelf life.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

Packaging

Primary Packaging: Cartridges
Pallet: 45 in x 48 in (114 cm x 122 cm) wooden pallet
Cartridges Per Carton: 12
Cartons Per Pallet: 40
Weight Per Carton: 40 lb (18.1 kg)

Siplast 14911 Quorum Dr., Suite 600 Dallas, TX 75254
201 Bewicke Ave., Suite 208 North Vancouver, BC, Canada V7M 3M7
Customer Service in North America 1.800.922.8800 www.siplast.com

PRO PRIMER AC

Commercial Product Data Sheet

Product Description
Pro Primer AC is a single component, water-based, acrylic latex, general purpose primer used as a bleed-blocker, adhesion promoter and corrosion inhibitor prior to application of Paraflex Liquid Membrane and Paraflex 531 Liquid Flashing and Paraflex Metal Roof Coating Systems.

Product Use
Pro Primer AC is used as a bleed-blocker over bituminous substrates and is also effective as a tannin bleed-blocker when applied over wood/plywood. Pro Primer AC also enhances adhesion to steel, galvanized steel, Galvalume®-coated steel, aluminum, wood/plywood, concrete masonry, brick, CMU and previously painted surfaces. Pro Primer AC can be applied by roller, brush, or spray.

Application Conditions
Pro Primer AC can be applied when the ambient and substrate temperature is within the range noted below. Discontinue primer application when the ambient or substrate temperature is outside of the specified range or if conditions will not allow for complete cure before rain, dew or freezing temperatures occur. Do not apply Pro Primer AC if ambient or substrate temperatures are below 50°F (10°C), if there is a possibility that ambient temperatures may fall to 32ºF (0º C) within 2 hours of application, if the substrate is within 5ºF of the dew point or if the relative humidity is above 90%. Cool temperatures and high humidity will slow the drying process.

Dry Time to Touch: 20-30 minutes @ 75ºF (24ºC)/50% RH (ASTM D1640)
Cure Time for Application of Subsequent Coats of Primer: Typically 1-hour (depending on ambient conditions)

Maximum Exposure Time before Application of Liquid Membrane: 48 hours

Provide adequate shade over the substrate area both prior to and during application as necessary to maintain substrate surface temperatures below 105º F (40º C).

When work is interrupted or completed, clean tools using water and Pro Prep CC before the liquid hardens.

Personal Protection Equipment (PPE)
Workers must wear a long sleeved shirt with long pants and work boots. Workers must use only butyl rubber or nitrile gloves when mixing or applying this product. Safety goggles are required for eye protection.

COMMERCIAL PRODUCT INFORMATION
Unit: 5-gallon pail (18.9 liters)
Pro Primer AC is formulated in a bone white color.

Properties:
Solids by Weight: 46% (±1%) [ASTM D2369]
Solids by Volume: 36.2% (±1%) [ASTM D2697]
Weight per Gallon: 10.4. lb (4.6 kg) (±2%) [ASTM D1475]
VOC Content: <100 g/L

Application/Coverage Rates (Typical Minimum Values)
Smooth Asphaltic Substrates: 0.6 gal/sq (0.24 l/m²)

Granule-surfaced Asphaltic Substrates: 0.7 gal/sq (0.29 l/m²)

Galvanized Steel/Aluminum: 0.3 gal/sq (0.12 l/m²)

Steel: 0.5 gal/sq (0.21 l/m²)

Wood/Plywood: 0.4 gal/sq (0.17 l/m²)

See applicable Siplast Installer's Guides for specific applications. Application/coverage rates may vary depending upon the specific substrate and the texture/porosity of the substrate.

Shelf Life: 18 months (if stored at 40°F (4°C) to 90°F (32°C)

Number of 5-gallon pails per pallet: 36
Number of pallets per truck: 20
Gross weight per pail: 61 lb (27.7 kg)

Pallet size:
5-gallon pails 48 in X 42 in X 49 in (122 cm X 107 cm X 124 cm)
Shipping Classification: Not regulated as a dangerous material.

Storage and Handling
Pallets of Pro Primer AC should be stored upright on a clean, flat surface at temperatures between 40°F (4°C) and 90°F (32°C). Avoid storage in direct sunlight. Do not allow containers of Pro Primer AC to freeze under any circumstances.

Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink or smoke in the application area.

Consult the Safety Data Sheet (SDS) for additional information on storage and handling of this product.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

Rev 6/2018

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Safety Data Sheet
Siplast WALLcontrol™ Modifed Silicone (STPE) VP Liquid AWB

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Siplast WALLcontrol™ Modifed Silicone (STPE) VP Liquid AWB

1.2 Other means of identification

4546

1.3 Recommended use of the chemical and restrictions on use AWB

1.4 Supplier's details

Name	Siplast
Address	14911 Quorum Drive Suite 600 75254 Dallas TX
Telephone	800-922-8800
Email	info@siplast.com

1.5 Emergency phone number

Call: CHEMTREC 1-800-424-9300 International 1-703-527-3887

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Sensitization, skin, Cat. 1
- Specific target organ toxicity (repeated exposure), Cat. 1
- Toxic to reproduction, Cat. 1A
- Carcinogenicity, Cat. 1B

2.2 GHS label elements, including precautionary statements

Pictograms

	1. Exclamation mark; 2. Health hazard
Signal word	**Danger**
Hazard statement(s)	
H317	May cause an allergic skin reaction
H350	May cause cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

[route]

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands, forearms, and exposed areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see Section 4).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container according to local, regional, national, and international regulations.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

1. Limestone

Concentration	11 - 60 % (weight)
EC no.	215-279-6

CAS no.	1317-65-3

2. Calcium carbonate

Concentration	20 - 50 % (weight)
EC no.	207-439-9
CAS no.	471-34-1

3. Carbon black (airborne, unbound particles of respirable size)

Concentration	0.5 % (weight)
EC no.	215-609-9
CAS no.	1333-86-4

4. Component 9 (trade secret)*

Concentration	0.1 - 6 % (weight)

- Toxic to reproduction, Cat. 1B
- Specific target organ toxicity (repeated exposure), Cat. 1

H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs [organs] through prolonged or repeated exposure [route]

5. Component 12 (trade secret)*

Concentration	0.1 - 7 % (weight)

- Carcinogenicity, Cat. 1B

H350	May cause cancer

Trade secret statement (OSHA 1910.1200(i))
*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact: Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Important Symptoms and Effects, both Acute and Delayed

General: Harmful if swallowed. Causes skin irritation. Causes severe eye irritation. Causes damage to organs through prolonged or repeated exposure. May damage fertility or the unborn child. Suspected of causing genetic defects.

Inhalation: May cause irritation to the respiratory tract.

Skin Contact: May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May damage fertility. May damage the unborn child. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. Indication of any immediate medical attention and special treatment needed. If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical
None.

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Note: This material encapsulates the dry ingredients
Tin organic compounds (RR-00042-0)

Mexico OEL TWA (mg/m3) 0.1 mg/m3
Mexico OEL STEL (mg/m3) 0.2 mg/m3
USA ACGIH ACGIH TWA (mg/m3) 0.1 mg/m3
USA ACGIH ACGIH STEL (mg/m3) 0.2 mg/m3
USA OSHA OSHA PEL (TWA) (mg/m3) 0.1 mg/m3
USA NIOSH NIOSH REL (TWA) (mg/m3) 0.1 mg/m3 (except Cyhexatin)
USA IDLH US IDLH (mg/m3) 25 mg/m3 (except Cyhexatin)
Alberta OEL STEL (mg/m3) 0.2 mg/m3
Alberta OEL TWA (mg/m3) 0.1 mg/m3
British Columbia OEL STEL (mg/m3) 0.2 mg/m3
British Columbia OEL TWA (mg/m3) 0.1 mg/m3
Manitoba OEL STEL (mg/m3) 0.2 mg/m3
Manitoba OEL TWA (mg/m3) 0.1 mg/m3
New Brunswick OEL STEL (mg/m3) 0.2 mg/m3
New Brunswick OEL TWA (mg/m3) 0.1 mg/m3
Newfoundland & Labrador OEL STEL (mg/m3) 0.2 mg/m3
Newfoundland & Labrador OEL TWA (mg/m3) 0.1 mg/m3
Nova Scotia OEL STEL (mg/m3) 0.2 mg/m3
Nova Scotia OEL TWA (mg/m3) 0.1 mg/m3
Nunavut OEL STEL (mg/m3) 0.2 mg/m3
Nunavut OEL TWA (mg/m3) 0.1 mg/m3
Northwest Territories OEL STEL (mg/m3) 0.2 mg/m3
Northwest Territories OEL TWA (mg/m3) 0.1 mg/m3
Ontario OEL STEL (mg/m3) 0.2 mg/m3
Ontario OEL TWA (mg/m3) 0.1 mg/m3
Prince Edward Island OEL STEL (mg/m3) 0.2 mg/m3
Prince Edward Island OEL TWA (mg/m3) 0.1 mg/m3
Québec VECD (mg/m3) 0.2 mg/m3
Québec VEMP (mg/m3) 0.1 mg/m3
Saskatchewan OEL STEL (mg/m3) 0.2 mg/m3
Saskatchewan OEL TWA (mg/m3) 0.1 mg/m3
Yukon OEL STEL (mg/m3) 0.2 mg/m3
Yukon OEL TWA (mg/m3) 0.1 mg/m3

Exposure guidelines: The table below is a summary. Please see the specific legislation for complete information.

Carbon Black, CAS RN 1333-86-4:
Argentina: 3.5 mg/m3 , TWA
Australia: 3.0 mg/m3 , TWA inhalable
Belgium: 3.6 mg/m3 , TWA
Brasil: 3.5 mg/m3 , TWA
Canada (Ontario): 3.0 mg/m3 , TWA inhalable
China: 4.0 mg/m3, TWA; 8.0 mg/m3 , STEL
Colombia: 3.0 mg/m3 , TWA inhalable

Czech Republic: 2.0 mg/m3 , TWA
Finland: 3.5 mg/m3 , TWA; 7.0 mg/m3 , STEL
France - INRS: 3.5 mg/m3 , TWA/VME inhalable
Hong Kong: 3.5 mg/m3 , TWA
Indonesia: 3.5 mg/m3 , TWA/NABs
Ireland: 3.5 mg/m3 , TWA; 7.0 mg/m3 , STEL
Italy: 3.0 mg/m3 , TWA inhalable
Japan SOH: 4.0 mg/m3 , TWA; 1.0 mg/m3 , TWA respirable
Korea: 3.5 mg/m3 , TWA
Malaysia: 3.5 mg/m3 , TWA
Netherlands - MAC: 3.5 mg/m3 , TWA inhalable
Mexico: 3.5 mg/m3 , TWA
Norway: 3.5 mg/m3 , TWA
Poland: 4.0 mg/m3 TWA (NDS) (applies to carbon black containing benzo(a)pyrene <35 mg in 1 kg of carbon black, total inhalable dust)
Sweden: 3.0 mg/m3, TWA
United Kingdom - WEL: 3.5 mg/m3, TWA inhalable; 7.0 mg/m3 , STEL inhalable
US ACGIH - TLV: 3.0 mg/m3 , TWA inhalable
US OSHA - PEL: 3.5 mg/m3, TWA

8.2 Appropriate engineering controls

General industrial hygiene practice.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Wear suitable protective clothing.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards
No data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid
Appearance	Dark
Color	Dark
Odor	Not Available
pH	Not Available
Melting point/freezing point	Not Available
Boiling point or initial boiling point and boiling range	Not Available
Flash point	Not Available
Evaporation rate	Not Available
Flammability	Not Available
Lower and upper explosion limit/flammability limit	Not Available
Vapor pressure	Not Available
Relative vapor density	Not Available
Density and/or relative density	1.368
Solubility	Not Available
Partition coefficient n-octanol/water (log value)	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Kinematic viscosity	Not Available
Explosive properties	Not Available
Oxidizing properties	Not Available

Particle characteristics
Not Available

Supplemental information regarding physical hazard classes
Not Available

Further safety characteristics (supplemental)
Not Available

SECTION 10: Stability and reactivity

10.1 Reactivity
None under normal use conditions.

10.2 Chemical stability
No data available

10.3 Possibility of hazardous reactions
None under normal use conditions.

10.4 Conditions to avoid
Exposure to moisture.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

User Tip: Toxicity items to include acute toxicity of components

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

OSHA specifically regulated carcinogen

Reproductive toxicity

No data available

Specific target organ toxicity (STOT) - single exposure

Causes damage to organs.

Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure

Aspiration hazard

No data available

Additional information

Calcium carbonate: Draize test, rabbit, eye: 750 ug/24H Severe;
Draize test, rabbit, skin: 500 mg/24H Moderate;
Oral, rat: LD50 = 6450 mg/kg;

.

2-METHYL-1-NITROANTHRAQUINONE: *TOXICITY: typ.
dose mode specie amount units other
LD50 ipr rat 1100 mg/kg

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:

THR: Mutation data. An experimental carcinogen and neoplastigen. MODERATE via intraperitoneal route.

*CARCINOGENICITY:
Tumorigenic Data:
TDLo: orl-rat 45 gm/kg/2Y-C
TDLo: orl-mus 10 gm/kg/41W-C
TD : orl-rat 20 gm/kg/78W-C
TD : orl-rat 19 gm/kg/77W-C
TD : orl-mus 19 gm/kg/37W-C
Review: IARC Cancer Review: Animal Sufficient Evidence
IARC possible human carcinogen (Group 2B) [015,395,610]
Status: NCI Carcinogenesis Bioassay (Feed); Positive: Male and Female Rat, Male and Female Mouse [620]

*MUTATION DATA: See RTECS printout for most current data test
lowest dose | test lowest dose
---------- ---------- | ---------- ----------
mmo-sat 33 ug/plate | mma-sat 3 ug/plate

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: None
ACGIH: None
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): None
Flammability (F): None
Reactivity (R): None

*OTHER TOXICITY DATA: Not available

SECTION 12: Ecological information

Toxicity
No data available on product

Persistence and degradability
No data available on product

Bioaccumulative potential
No data available on product

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Offer surplus and non-recyclable solutions to a licensed disposal company.

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Packaging disposal
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 components
Chemical name: Carbon black (airborne, unbound particles of respirable size)
⚠ WARNING: This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Canadian Domestic Substances List (DSL)
Chemical name: Carbonic acid calcium salt (1:1)
CAS: 471-34-1

Chemical name: Carbon black
CAS: 1333-86-4

Canadian Non-Domestic Substances List (NDSL)
Chemical name: Limestone
CAS: 1317-65-3

New Jersey Right To Know Components
Common name: CALCIUM CARBONATE
CAS number: 1317-65-3

Common name: CARBON BLACK
CAS number: 1333-86-4

Pennsylvania Right To Know Components
Chemical name: Limestone
CAS number: 1317-65-3

Chemical name: Carbon black

CAS number: 1333-86-4

SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Siplast be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Siplast has been advised of the possibility of such damages.

16.2 Preparation information

This SDS is prepared by Siplast.

WALLcontrol™ Liquid Applied

Installer's Guide

03-2024 Version

Table of Contents

siplast®
With you every step of the way

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www.siplast.com

I. Siplast WALLcontrol Liquid Products System Overview

Siplast WALLcontrol System

Siplast WALLcontrol products provide high-performance solutions for vertical walls, helping to create a continuous air and water barrier for commercial buildings, and enabling complex transitions from roofing and waterproofing systems. Siplast WALLcontrol liquid applied products are vapor permeable liquid applied single-component silyl-terminated polyether (STPE) moisture-cure air and water-resistive barrier (AWB) for commercial wall systems. During application, the high solids formulation is resistant to wash-off when curing, has minimal dry film shrinkage, applicable by spray or roll in a single continuous coat, and is suitable for low-temperature conditions.

II. Products

Liquid AWB Membranes

- Siplast WALLcontrol Modified Silicone (STPE) VP Liquid AWB

Liquid Flashing and Sealants

- Siplast WALLcontrol Modified Silicone (STPE) VP Liquid Flashing
- Siplast PS-715 NS Elastomeric Sealant or a compatible approved sealant

Accessories (as needed)

- Siplast WALLcontrol Reinforced Aluminum Butyl Adhered AWB
- Siplast WALLcontrol Reinforced Aluminum Butyl Adhered Flashing
- Siplast WALLcontrol Stainless Steel Butyl Adhered Flashing
- Siplast Pro Primer AC or a compatible approved primer
- Termination bar with sealant catch lip
- Fasteners with appropriate blocking, attachment type, structural capacity, and head configuration
- Stainless steel formed metal drip edges, welded corners, and welded end dams
- Siplast Monarflex Temporary Enclosure Systems for tenting as protection as needed

III. Personal Protection

For professional use only. Prior to application, refer to the applicable WALLcontrol liquid products Commercial Product Data Sheets (CPDS), Safety Data Sheets (SDS), project specifications, and application instructions. Always read the full label and product safety data sheet for precautionary instructions before use. Use appropriate safety equipment and job-site controls during application and handling.

When applying WALLcontrol liquid products, typical exposure levels will be below OSHA permissible limits for most outdoor applications. The applicator is responsible for ensuring conditions are appropriate to proceed and proper application methods are followed. Refer to product SDS for health, safety, and environment-related hazards, and take all necessary measures and precautions to comply with specified exposure limits where required. When required, air monitoring should be performed by a qualified person to identify any hazards. Use personal protective equipment as required. If respiratory protection is required, use a NIOSH-approved air-purifying respirator.

IV. Storage and Handling

WALLcontrol liquid applied products should be stored on end between 40°F to 90°F (5°C to 32°C) on a clean, flat surface in dry conditions out of direct exposure to the elements. When stored in these conditions WALLcontrol liquid applied products have a shelf life of 12 months after the date of manufacture. This shelf life assumes upright storage of factory-sealed containers. Do not open the container until preparation work has been completed. Keep the container tightly closed when not dispensing. Do not alter or mix with other chemicals.

Use appropriate safety equipment and job-site controls during application and handling. Pallets should not be double-stacked. The contractor shall ensure compliance with OSHA, EPA and other local governing and disposal authorities for project-related safety and environmental requirements. Dispose of unused WALLcontrol liquid products in accordance with local, state, and federal regulations. Consult local, provincial, territory or state authorities to know disposal methods.

V. Building and Energy Codes

References are made to the 2012/2015/2018/2021 International Building Code (IBC), the 2012/2015/2018/2021 International Energy Conservation Code (IECC), the ASHRAE 90.1 2010/2013/2016/2019 Standard. This information is provided for educational purposes only, and is not a substitute for independent review of applicable building and energy code requirements. Siplast makes no representation or warranty (express or implied) as to the accuracy of the information contained herein.

IBC Section 1402.2 or 1402.3 "Weather Protection"

This code section states that exterior walls shall be protected by:

- A water-resistive barrier (WRB) behind the exterior veneer.
- A WRB designed and constructed to prevent the accumulation of water within the wall assembly.
- A WRB designed and constructed with a means for draining water to the exterior which enters the assembly.
- Include flashing to meet the requirements of IBC Section 1404.4.

IBC Section 1404.4 Flashing

This code section states that flashing shall be installed to:

- Prevent moisture from entering the wall or to redirect that moisture to the surface of the exterior wall, wall finish, or to a water-resistive barrier.
- Be part of a means of drainage complying with the weather-resistant exterior wall envelope (complying with IBC "Weather Protection" Section).
- Be installed at the perimeters of exterior door and window assemblies, penetrations and terminations of exterior wall assemblies, exterior wall intersections with roofs, chimneys, porches, decks, balconies and similar projections, and at built-in gutters and similar locations where moisture could enter the wall.
- Flashing with projecting flanges shall be installed on both sides and the ends of copings, under sills and continuously above projecting trim.
- Where self-adhered membranes are used as flashings of fenestration in wall assemblies, those self-adhered flashings shall comply with AAMA 711.
- Where liquid-applied membranes are used as flashings of fenestration in wall assemblies, those self-adhered flashings shall comply with AAMA 714.
- IBC Section 1404.4.1 Exterior Wall Pockets: Exterior walls of buildings or structures, wall pockets or crevices in which moisture can accumulate shall be avoided or protected with caps or drips or other approved means shall be provided to prevent water damage.
- IBC Section 1404.4.2 Masonry: Flashing and weep holes in anchored veneer (complying with IBC* Section 1404.6) shall not be located more than 10 inches above finished ground level above the foundation wall or slab. At other points of support including structural floors, shelf angles, and lintels, flashing and weep holes shall be located in the first course of masonry above the support.

IECC and ASHRAE 90.1 Continuous Air Barrier

These energy codes require the entire building envelope:

- Be designed, documented, and constructed with a continuous air barrier.
- Utilize air-impermeable materials or assemblies with manufacturer instructions for use as an air barrier.
- Be inspected and/or tested onsite for whole building air tightness compliance (code version dependent).

VI. Installation Tools

General Installation Tools

For liquid materials such as primers, liquid AWB, liquid flashing, and sealants, the following tools are recommended depending on the specific application:

- Wet mil gauge, rollers, brushes, trowels, backer rod, and sealant finishing tools.

For adhered materials such as butyl-adhered AWB and flashings, the following tools are recommended depending on the specific application:

- Tape measure, utility knife, shears, and hard rollers of various widths.

Powered Spray and Roller Equipment for WALLcontrol STPE Liquid AWB

WALLcontrol STPE Liquid AWB can be applied by spray, pressure roller, roller, and brush. When spraying or using a pressure roller WALLcontrol STPE Liquid AWB can be dispensed directly from pails and drums using air, electric, or engine-powered application equipment. WALLcontrol STPE Liquid AWB cures in the presence of atmospheric moisture thus spray or pressure roller equipment used to process this material:

- Must be free of water prior to loading product into the equipment.
- Must be designed to operate safely at the pressures required to deliver WALLcontrol STPE Liquid AWB.
- Must be capable of providing a minimum of 3000 psi (207 bar) at the gun.
- Should contain hoses that are solvent-resistant.
- Should contain hoses that are vapor lock in design if the product is intended to remain in the lines for extended periods of time.

WALLcontrol STPE Liquid AWB requires a minimum of 3000 psi (207 bar) at the gun to obtain an optimized spray pattern. WALLcontrol STPE Liquid AWB works in many commercially available pumping and spray systems however, individual system requirements will be based on a number of factors relative to the desired system and type (ex. hose length, hose diameter, spray tip, gas-powered, etc.), as well as the number of applicators to be operated from each pump.

There are a number of methods to deliver material from the drum or pail to the spray equipment, including: direct immersion, pouring material into a hopper, use of a transfer pump, and feed hoses on a self-priming pumping system. It is important that the feed system is able to supply enough material so as not to starve the system. Contact the spray equipment manufacturers for system advice based on the above variables and feed options.

Equipment that is used to apply both water-based and solvent-based material must be properly flushed with solvent prior to filling the equipment with WALLcontrol STPE Liquid AWB. It is recommended to have designated hoses, guns, roller kits, and pump feeds for each type of chemistry. Clean, dry, and non-reclaimed solvents should be used for flushing. Mineral Spirits, Xylene, Sunnyside 301, or Sunnyside 476 VOC-compliant solvents have been shown to be suitable. Spray tips can be cleaned in 100% mineral spirits or naphtha using airbrush cleaning tools.

Gas-Powered Pump Units

The list of equipment below has shown to be sufficient to atomize and properly spray WALLcontrol STPE Liquid AWB. When using power equipment, always follow the equipment manufacturer's operation and safety instructions. For assistance in finding equipment suppliers or determining the suitability of existing equipment, contact your local GRACO® supplier.

- GRACO® GH733 Big Rig™
- GRACO® GH833 Big Rig™ *(recommended)*
- GRACO® GH933 Big Rig™
- GRACO® TexSpray® 7900HD
- GRACO® DutyMax™ GH675 DI

Spray Equipment Accessories

The list of equipment below has shown to be sufficient to spray WALLcontrol STPE Liquid AWB.

- GRACO® 235462, Silver Plus Airless Spray Gun *(recommended)*. In this spray gun configuration, fluid flows directly to the tip through the gun fluid tube, providing the ability to spray high-solid liquid AWBs
- GRACO® RAC X SwitchTip™ 525 (0.025 orifice), *(recommended)*. Spray tips with an orifice size between 0.015" and 0.035" are suitable to spray WALLcontrol STPE Liquid AWB, but tip selection is dependent on the capabilities and condition of the pump unit, hoses, as well as the specific configuration of hose length, hose sizes, spray fan width, outdoor temperature, and material temperature.
- GRACO® 277253, 1/2 in x 50 ft BlueMax™ II HP Airless Hose rated for 4000 psi. The optimum hose length for spray applications is 50 ft of ½ in or ¾ in hose. The maximum hose length for spraying applications is 100 ft and may require combining two sections of 50 ft hoses with the descending diameter hoses from the pump to the spray nozzle. Configuration of hoses is temperature, equipment, temperature, and condition dependent. Installations with hose configurations greater than 100 ft in length are recommended to be applied by pressure roller.
- GRACO® 277351, 3/8 in x 3 ft BlueMax™ II HP Airless Whip Hose rated for 4000 psi.

Pressure Roller Equipment

The list of equipment below has shown to be sufficient to pressure roll WALLcontrol STPE Liquid AWB.

- GRACO® 245397, EvenFlow™ In-Line Valve Pressure Roller Assembly *(recommended)*
- GRACO® 107591, 9 in (230 mm) Roller Cover, 3/4 in (19 mm) nap *(recommended)*
- GRACO® 244281, EvenFlow™ Telescoping Roller Assembly *(optional)*

VII. Substrate Preparation

Prior to the installation of WALLcontrol liquid products the following are required:

- Roofing systems shall be capped and sealed, or the top of walls protected, in such a way as to eliminate the ability of water to saturate the wall or interior space, both before and after, air barrier system installation. Coordinate installation of WALLcontrol products with the roofing trade to ensure compatibility and continuity with the roofing system.
- Protect people, vehicles, property, plants and all other surfaces not intended for application. The installing professional should consider whether the structure should be tented or masked to protect the surrounding area from overspray. Siplast Monarflex Temporary Enclosure Systems are easy to install, durable, and meet industry standard configurations for site containment and protection.
- Substrate must be clean and dry and free from gross irregularities, loose material, unsound material, sharp protrusions, any foreign material (such as dirt, ice, snow, water, grease, bitumen/coal tar, oil, release agents, lacquers, paint coverings), or any other condition that would be detrimental to the adhesion of the membrane to the substrate.
- Clean loose dust or dirt from the surface to which the WALLcontrol liquid product is to be applied by wiping with a clean, dry cloth or brush.
- WALLcontrol products may be applied to most typical building materials such as exterior sheathing boards, CMU, concrete, exterior grade plywood, OSB, and metal surfaces.
    - Exterior sheathing shall be installed according to the manufacturer's installation instructions and fastening pattern. All board edges shall be sound and anchored in a way to provide minimum deflection. All board edges shall be cut cleanly and excess debris shall be removed. Where a WALLcontrol liquid product will be applied to the cut edges of gypsum sheathing, prime the exposed gypsum edges with Siplast Pro Primer AC or a compatible approved primer.
    - CMU walls shall have all joints filled and struck flush. Mortar should be cured for a minimum of 7 days. Where necessary, clean loose mortar and other contamination on the substrate with a wire brush or similar abrasion to provide a stable, clean, frost-free, and dust-free surface for application.
    - Exterior grade plywood, sheathing, and lumber shall be securely fastened. Ensure substrate is acceptable prior to application of WALLcontrol products.
    - Metal surfaces need to be clean and free of oils or other contaminants. Remove rust or other oxidation layers from the surface prior to application.
- When installing WALLcontrol liquid products, it is recommended to install the WALLcontrol adhered membranes and flashings prior to application of the WALLcontrol liquid systems.
- WALLcontrol adhered and liquid products adhere to common construction substrates without primers, however, it is always recommended that a mock-up or field adhesion test on the actual materials being used on the job be conducted to verify adhesion.
- Primers can also be used to improve adhesion to the substrate. Siplast Pro Primer AC is a water-based primer that imparts an aggressive, high-tack finish on the treated substrate.

VIII. General Applications

The following requirements apply to all WALLcontrol liquid product installations:

- When installing WALLcontrol liquid products, it is recommended to install the WALLcontrol adhered membranes and flashings prior to application of the WALLcontrol liquid systems.
- Refer to the *Siplast WALLcontrol Adhered Products Installer's Guide* for installation requirements of adhered AWB and flashing membrane that will interface with WALLcontrol liquid products.
- WALLcontrol products should be installed in a manner to shed water in a shingle fashion. The membrane should be installed in a sequence that maintains a continuous downward water drainage plane onto an acceptable air and water barrier with an unobstructed path to the exterior of the wall system.
- Sipalst WALLcontrol products as a system is a secondary water-resistive barrier (WRB), while the outer facade cladding is the primary water barrier. Follow the facade cladding manufacturer's installation and maintenance requirements in order to maintain the water holdout properties of the enclosure assembly. WALLcontrol products shall only be installed on a wall that features a continuous path for moisture drainage to the outside of the facade. All standing water must be able to drain from the WRB and flashings to the exterior.
- Application of WALLcontrol liquid products may proceed when ambient and surface temperature is a minimum 20°F (-7°C) and rising and the substrate is clean, dry, and frost-free.
- WALLcontrol liquid products may be applied to damp surfaces and tolerates rain immediately after application. It is suggested that the material be dry to the touch before being exposed to excessive rain. A surface is considered damp if there is no visible water on the surface and liquid water does not transfer from the surface when touched. As with any coating, application to substrates with high moisture content may lead to blistering of the material.
- WALLcontrol liquid products are not suitable for permanent UV exposure. See the specific commercial product data sheets (CDPS) for UV exposure limits.
- See the applicable WALLcontrol details for additional requirements regarding specific applications.

Substrate Treatment

Prior to the application of WALLcontrol STPE Liquid AWB, ensure the wall area is prepared as follows:

- Use WALLcontrol STPE Liquid Flashing on joints, seams, and all other interfaces, as needed. Allow the WALLcontrol STPE Liquid Flashing skin over before applying WALLcontrol STPE Liquid AWB.
- Repair or seal overdriven fastener heads and abandoned faster holes in the sheathing substrate with WALLcontrol STPE Liquid Flashing.
- Seal embedded masonry ties, pintles, and penetrations with WALLcontrol STPE Liquid Flashing.
- Treat all inside and outside corners with WALLcontrol STPE Liquid Flashing or WALLcontrol Reinforced Aluminum Butyl Adhered Flashing.
- Tool all sealants and liquid flashing materials to ensure it is worked into the surface.

AWB Membrane Application

The following requirements apply to WALLcontrol STPE Liquid AWB installations:

- Apply WALLcontrol STPE Liquid AWB as packaged. Do not dilute or alter, or use for applications other than specified. Stirring of the WALLcontrol STPE Liquid AWB is not necessary. If separation occurs, gently fold in the material until the mixture is uniform in the bucket. Avoid mixing air into the product.

- WALLcontrol STPE Liquid AWB can be installed by roller, brush, or spray application as a single continuous, monolithic membrane. Prevent sags, runs, or voids in the wet material by regularly checking wet mil thickness throughout the application to assure adequate coverage.
- The application of WALLcontrol STPE Liquid AWB should completely cover the treated WALLcontrol STPE Liquid Flashing detailed areas, and lap at least 2 in (50 mm) onto WALLcontrol adhered flashings.
- Some substrates will require additional material to achieve a continuous coating. Inspect surface after initial application, touch-up with WALLcontrol STPE Liquid Flashing or recoat WALLcontrol STPE Liquid AWB as needed.
- Repair any pinholes, voids, gouges, scratches, punctures, or damaged areas with WALLcontrol STPE Liquid Flashing. If the surface of the liquid air barrier or flashing membrane is damaged during construction, remove all loose surface contaminants before selective re-coating with additional WALLcontrol STPE Liquid AWB.
- All non-water shedding edges must be sealed with WALLcontrol STPE Liquid Flashing, Siplast PS-715 NS Elastomeric Sealant, or compatible approved sealant.
- Clean tools and equipment with mineral spirits or similar solvents immediately after use.
- Protect membranes to avoid damage by other trades and construction materials during subsequent operations. Insulation and/or protection products may be installed after membranes have been installed and cured.
- Inspect the membrane before covering with subsequent construction materials and repair any punctures, damaged areas or inadequately lapped seams.

Liquid Product Application Dimensions and Coverage

See the applicable Siplast WALLcontrol details for additional requirements regarding specific applications such as: joint sizes, reinforcement methods, and alternate installation options. The following are general application dimensional requirements for each product:

- Siplast WALLcontrol Modified Silicone (STPE) VP Liquid AWB
    - Minimum 20 mil thick coating extending at least 1 in (25 mm) onto each substrate and flashing.
    - The theoretical coverage rate at a thickness of 20 mils is approximately 80 ft2/gal, not including waste. Coverage will vary depending on the application technique and may be reduced over rough and uneven substrates. Adjust coverage rate accordingly to achieve a continuous membrane at 20 mils minimum.
- Siplast WALLcontrol Modified Silicone (STPE) VP Liquid Flashing
    - Minimum 60 mil thick coating extending at least 1 in (25 mm) onto both surfaces of joints and corners.
    - The theoretical consumption rate at a thickness of 60 mils, troweled 2 in (50 mm) wide is approximately 24 ln-ft per 20oz sausage tube, not including waste. Coverage will vary depending on the application technique, the width of joints applied, and may be reduced over rough and uneven substrates.
- Siplast PS-715 NS Elastomeric Sealant or a compatible approved sealant
    - Tooled fillet bead extending at least ½ in (12 mm) onto both surfaces.
    - The theoretical consumption rate of a 1/2 in (12 mm) x 1/2 in (12 mm) tooled sealant joint, is approximately 24 ln-ft per 20oz sausage tube, not including waste. Coverage will vary depending on the application technique, the width of joints applied, and may be reduced over rough and uneven substrates.

Spray Application Additional Items

When WALLcontrol STPE Liquid AWB is applied by a pressure sprayer the following items are required:

- If stored at temperatures below 65°F (18°C), the product must be warmed prior to spraying to a minimum 65°F (18°C), using various industry-accepted methods, for proper atomization at the spray tip.
- Avoid spraying WALLcontrol STPE VP AWB in windy or dusty conditions. The installing professional should consider whether the structure should be tented or masked to protect the surrounding area from overspray. Siplast Monarflex Temporary Enclosure Systems are easy to install, durable, and meet industry standard configurations for site containment and protection.
- When WALLcontrol STPE VP AWB will be sprayed onto the wall surface, ensure the outer edges of all interfaces are pretreated with WALLcontrol STPE Liquid Flashing, Siplast PS-715 NS Elastomeric Sealant, or compatible approved sealant and tapered to the substrate to provide a smooth transition, free of pinholes and voids.
- With the spray gun 12 to 18 inches from the surface, spray apply WALLcontrol STPE VP AWB to a thickness of 20 wet mils using a crosshatch spray pattern. Ensure there are no pinholes, voids, or gaps in the membrane.
- When spraying WALLcontrol STPE VP AWB, backrolling or joint pretreatment is required for gaps in the substrate 1/16 in wide or less.
- Do not allow WALLcontrol STPE Liquid AWB to sit idle in the sprayer for more than 15 minutes.

Drying and Curing Times

Surface & Air Temperatures Substrate and temperature conditions between 14°F (-10°C) and 110°F (43°C) are required for proper curing and drying of material to take place.

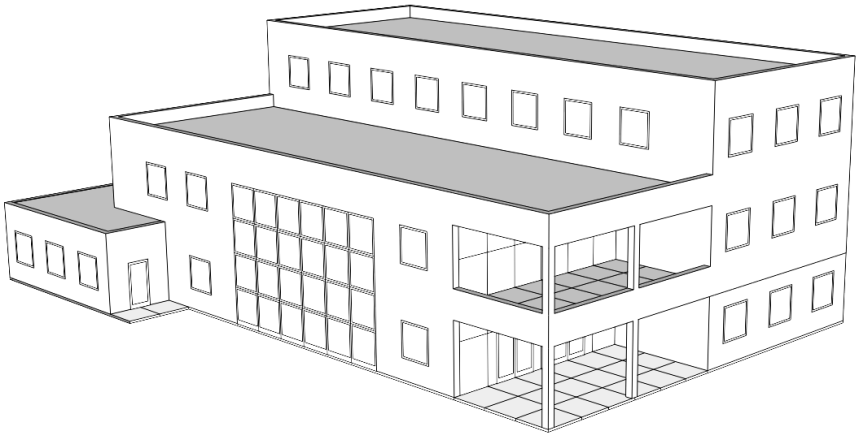
- When air or surface temperatures exceed 95°F (35°C), apply the product to the shady side of the structure before daytime air and surface temperatures reach their peak. Keep containers closed and out of direct sunlight when not in use. Do not apply when substrate temperature exceeds 110°F (43°C).
- Product may be applied to frost-free substrates at temperatures below 32°F (0°C). The product will cure more readily when temperatures reach 32°F (0°C) and remain above freezing. During cold weather, keep material stored in a heated environment prior to use.

The durations provided below are determined under normal conditions at 70°F (20°C) at 50% relative humidity (RH). Actual cure time may be slower with lower ambient or surface temperatures and/or lower RH.

- **Dry to Touch**. This is the time required to form a surface that is non-transferable or “skinned over”. This stage of curing is suitable for recoat or subsequent liquid applications.
    - 2 Hours for WALLcontrol liquid products, generally. See the specific commercial product data sheets (CDPS) for product-specific times.
- **Stress Resistant**. This is the time required for the surface to be resistant to minor abrasion. This stage is suitable for subsequent construction to proceed, such as the installation of cladding fasteners, continuous insulation, or cladding.
    - 24 Hours for WALLcontrol liquid products, generally. See the specific CDPS for product-specific times.
- **Full Cure**. This is the time required to develop a full cure for performance testing on a project site, mockups, or in a 3rd party lab facility. Examples of performance tests that require a full cure are: water infiltration testing, air leakage testing, peel adhesion testing, or pull testing.
    - 14 Days for WALLcontrol liquid products, generally. See the specific CDPS for product-specific times.

IX. Specific Applications

For specific application information refer to the WALLcontrol detail and sequence sheets. Product and installation requirements may vary by application and project conditions.



Detail Sequences Drawing List

Below is a list of detail sequence sheets relevant to the WALLcontrol adhered product installations:

General Details

00.0 Detail Legend & Drawing List
01.S Adhered Membrane Wall Application
01.L Liquid Applied Wall Application
01.P Polyiso Board Wall Application
01.R AWB Repairs

Wall Condition Details

02.1 Substrate Joints
02.2 Outside Corners
02.3 Inside Corners
02.4 Cladding Attachments
02.5 Beam and Knifeplates
02.6 Pipe Penetrations
02.7 Electrical Penetrations
02.8 Relief Angle at Wall

Opening Details

03.1 Fenestration Flashing Overview
03.2 Fenestration Rough Opening with Adhered Flashing
03.3 Fenestration Rough Opening with Liquid Flashing
03.4 Fenestration Head Options
03.5 Fenestration Integral Flanged
03.8 Door Frame Flashing

Transition Details

04.1 Parapet Transition Flashing
04.2 Flush Edge Roof Transition Flashing
04.3 Parapet at Rising Wall Flashing
04.4 Wall to Waterproofing Transition
04.5 Soffits and Overhangs
05.1 Ledge Foundation Transition Flashing
05.2 Flush Foundation Transition Flashing