

WALLcontrol™ Adhered Products

Installer's Guide

01-2023 Version



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With you every step of the way

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I. Siplast WALLcontrol Adhered 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 adhered products are butyl-adhered air and water-resistive barrier (AWB) and flashing membranes with a high-temperature stable and low-temperature application butyl adhesive with a siliconized release liner. Siplast WALLcontrol adhered products are flexible, UV resistant, primerless membranes designed as a non-vapor permeable, air barrier membrane, and water-resistive barrier for commercial wall systems.

II. Products

Adhered AWB Membranes

- Siplast WALLcontrol Reinforced Aluminum Butyl Adhered AWB

Adhered Flashing Membranes

- Siplast WALLcontrol Reinforced Aluminum Butyl Adhered Flashing
- Siplast WALLcontrol Stainless Steel Butyl Adhered Flashing

Accessories (as needed)

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

III. Personal Protection

For professional use only. Refer to the applicable WALLcontrol adhered products Commercial Product Data Sheets (CPDS), Safety Data Sheets (SDS), project specifications, and application instructions. Use personal protective equipment as required. 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.

IV. Storage and Handling

WALLcontrol adhered 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. Pallets should not be double-stacked. Materials 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. Do not store in a leaning or horizontal position as deformation may occur. Dispose of unused WALLcontrol adhered 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

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.

For liquid materials such as primers, 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.

VII. Substrate Preparation

Prior to the installation of WALLcontrol adhered 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.
- Substrate must be clean, 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, paints), or any other condition that would be detrimental to membrane adhesion to the substrate.
- Clean loose dust or dirt from the surface to which the WALLcontrol adhered 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.
 - 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. Fill all voids and holes, particularly in the mortar joints, with a lean mortar mix, non-shrinking grout or parge coat.
 - Concrete wall tie holes/voids in poured concrete to be flush and smooth shall be filled. Allow new concrete to cure a minimum of 14 days after forms are removed. Curing compounds must be resin based without oil, wax or pigments. Substrates must be free of form release agents.
 - 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.
- 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.

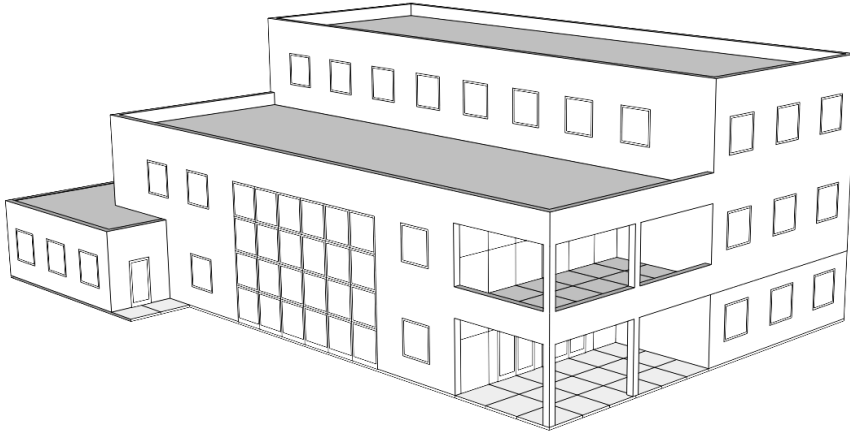
VIII. General Applications

The following requirements apply to all WALLcontrol adhered product installations:

- WALLcontrol adhered 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.
- Generally, application 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 adhered products can be applied vertically or horizontally.
- WALLcontrol adhered products shall be lapped onto the previous sheet a minimum of 2" (5cm). All other transitions should have a minimum of 3" (8 cm) overlap. All horizontal laps should be shingled to shed water.
- WALLcontrol adhered products must be mechanically roll-pressed with a J-Roller to ensure the membrane develops sound contact to the substrate.
 - Hard roller the material within a short period after the installation.
 - Ensure firm pressure is applied to the roller across the entire surface of the material to create continuous and intimate contact with the substrate.
 - Ensure you have a variety of sizes of hand rollers, such as larger widths for the main membrane areas, but also narrower rollers for detail areas like window flashing and transition membranes.
- All non-water shedding edges must be sealed with WALLcontrol STPE Liquid Flashing, Siplast PS-715 NS Elastomeric Sealant, or compatible approved sealant.
- At the end of each working day, if the wall has been only partially covered, apply a bead of WALLcontrol STPE Liquid Flashing, Siplast PS-715 NS Elastomeric Sealant, or compatible approved sealant along the top edge of the membrane at its termination to prevent vertical drainage of precipitation from penetrating the end and undermining the membrane adhesion.
- Tool all sealants and liquid flashing materials to ensure it is worked into the surface.
- 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.
- Inspect the membrane before covering it with subsequent construction materials and repair any punctures, damaged areas, or inadequately lapped seams.
- Tears and holes must be repaired using a patch of WALLcontrol adhered products applied directly to the existing membrane.
 - Repairs made using WALLcontrol adhered products sized to extend 6 in (150 mm) in all directions from the perimeter of the affected area. The repair piece must be pressed into place with a hand roller as soon as possible to ensure continuous and intimate contact with the substrate.
 - Repairs made using WALLcontrol liquid flashing products should be applied to extend at least 1 in (25 mm) in all directions from the perimeter of the affected area. WALLcontrol STPE Liquid Flashing application should be applied at a minimum thickness of 60 wet mils.

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 Detail Legend & Drawing List
- 01.S Adhered Membrane Wall Application
- 01.L Liquid Applied Wall Application

Wall Condition Details

- 02.1 Substrate Joints
- 02.2 Outside Corners
- 02.3 Inside Corners
- 02.4 Cladding Attachments
- 02.5 Beam and Knifepates
- 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 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
- 05.1 Ledge Foundation Transition Flashing
- 05.2 Flush Foundation Transition Flashing