

MATERIALS CHECKLIST POLYGUARD[®] AIRLOK[®] FLEX VP

AIR BARRIER SYSTEM: ABOVE-GRADE FLUID-APPLIED MEMBRANE

Polyguard Airlok Flex[®] VP

Airlok Flex[®] VP is a fluid-applied air barrier coating and is used over CMU, gypsum and wood sheathing. It can be applied in temperatures of 40°F (5°C) and rising, at an application thickness of 32 mils wet, and a coverage rate of 50 SF per gallon (Gypsum board is the standard for coverage, though coverage is inversely related to texture). The VOC content is <50 g/l, and a UV resistance of up to 1 year.

Check	Part Number	Unit Size	Units/pallet	Wt/unit
Polyguard Airlok Flex[®] VP	ALFLEXVP 05	5-gallon pail	36 pails/pallet	58#/pail
<i>Proban[®] mold inhibitor can be added at the factory to Airlok Flex[®] VP</i>	ALFLEXVP 50	50-gallon drum	4 dr/pallet	540#/dr
Airlok Flex[®] VP System Components (where applicable):	Part Number	Unit Size	Units/pallet	Wt/unit
Detail Sealant PW [™] • 20 oz. sausage	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn	45 ctns/pallet	45#/ctn
Detail Sealant PW [™] • 3 gal. pail	DETAIL SEALANT PW – 3 GAL	3-gallon pail	36 pails/pallet	37#/pail
<i>* Detail Sealant PW[™] required in certain details – contact Polyguard Products.</i>				
Possible Accessories:	Part Number	Unit Size	Units/pallet	Wt/unit
Airlok [®] STPE WRB Flash-N-Roll	AIRLOK STPE 2400-2 GAL	2-gallon pail	64 pails/pallet	20#/pail
Airlok [®] STPE WRB Flash-N-Roll	AIRLOK STPE 2400-5 GAL	5-gallon pail	36 pails/pallet	50#/pail
Airlok [®] STPE WRB Gun-N-Spread	AIRLOK STPE 2100-SAU 20 OZ	20 sausages/ctn	45 ctns/pallet	45#/ctn
Airlok [®] STPE WRB Detail-N-Joint	AIRLOK STPE 2200-SAU 20 OZ	20 sausages/ctn	45 ctns/pallet	45#/ctn
400 Flashing - 40 mil (6", 9", 12", 18" & TWF)	varies/size	75' roll	36 ctns/pallet	68#/ctn
UV365 [™] Flashing - 40 mil (6", 9", 12", 18" *Window Flashing Only; no TWF)	varies/size	75' roll	36 ctns/pallet	68#/ctn
UV365 [™] Ultra Flashing - 40 mil (6", 9", 12", 18" *Window Flashing Only; no TWF)	varies/size	75' roll	36 ctns/pallet	68#/ctn
<i>Choose product relative to specific application.</i>				
650 LT Liquid Adhesive • 5 gal. pail	650-5 LIQ ADH 5 GA	5-gallon pail	36 pails/pallet	45#/pail
650 LT Liquid Adhesive • 4 – 1 gal. pails	650-5 LIQ ADH 1 GA	4 – 1 gal pails/ctn	54 ctns/pallet	31#/ctn
California Sealant	CALSEAL5	5-gallon pail	36 pails/pallet	45#/pail
Shur-Tac Liquid Adhesive • 5 gal. pail	SHUR-TAC5	5-gallon pail	36 pails/pallet	44#/pail
Shur-Tac Liquid Adhesive • 4 – 1 gal. pails	SHUR-TAC1	4 – 1 gal pails/ctn	54 ctns/pallet	37#/ctn
<i>Polyguard 650 LT Liquid Adhesive, California Sealant, or Shur-Tac Liquid Adhesive are not required as a primer when UV365 Flashing, UV365 Ultra Flashing or 400 Flashing are applied over cured Airlok Flex[®] VP.</i>				
Quick Grip Spray Adhesive	QGADH30	30# canister covers approximately 1000 SF		

Weights listed are estimates.

AIRLOK FLEX® VP

Fluid-Applied Air/Moisture Barrier System

PRODUCT NAME

Airlok Flex® VP

MANUFACTURER

Polyguard Products, Inc.
Ennis, TX 75119
(214) 515-5000
www.polyguard.com

PRODUCT DESCRIPTION

BASIC USES

Airlok Flex® VP is designed as an above-grade air, weather and vapor permeable coating for application over poured concrete, precast concrete, CMU, the following types of sheathing: paper-face, glass-face, foil-face; rigid insulation; plywood; and OSB.

PRODUCT FEATURES

- Vapor permeable, cold liquid-applied, single-component, water-based air and weather barrier coating.
- UV resistance of up to one year.
- Forms a durable protection with over 100 PSI adhesive pull-off strength.
- Blocks inward-moving water from penetrating through the coating to the substrate, and reduces energy loss.
- For designers wanting maximum protection, Proban® added at the factory delivers additional contact mold-inhibiting properties to the air barrier system.

COMPOSITION & MATERIALS

Airlok Flex® VP contains a non-combustible, water-based blend of high-performance, elastomeric acrylic polymers and selected fillers with a VOC content of 50 g/l.

TECHNICAL DATA

See physical properties table.

INSTALLATION

SURFACE PREPARATION

Note: When using Detail Sealant PW™ as filler to be covered by Airlok Flex® VP, allow a minimum of 1 hour for sealant to skin over before covering, adding additional time for lower ambient and surface temperatures. Cure time is less than an hour at 75°F (24°C) and 50% RH.

Poured Concrete Walls: Before coating, fill surface voids and honeycombed concrete with Detail Sealant PW or a non-shrinking Portland cement installed per manufacturer's instructions. Allow Detail Sealant PW a minimum of 1 hour to-skin over before covering, adding additional time for lower ambient and surface temperatures.

Remove form ties from both sides of the wall. On the side of the wall that will be coated, fill tie depression irregularities flush with the face of the wall using non-shrinking Portland cement installed per manufacturer's instructions or Detail Sealant PW. Allow Detail Sealant PW a minimum of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures. Apply Airlok Flex VP to clean, dry, sound concrete.

Concrete Masonry Walls: Test for adhesion over CMU units containing integral moisture repellent. Tool and then brush mortar joints to establish a surface profile for adhesion. Fill mortar voids or damaged faces with mortar, non-shrinking Portland cement installed per manufacturer's instructions, or Detail Sealant PW™. Allow Detail Sealant PW a minimum

Product Data Sheet

of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures. Also allow the mortar and/or cement to dry to the touch before coating. Apply Airlok Flex VP to clean, dry and sound concrete.

Sheathed Walls: Following an Airlok Flex® VP application, cover exposed fastener heads with an application of Detail Sealant PW™.

Fill joints less than 1/4-inch wide with a bead of Detail Sealant PW tooled to 20 mils thick and onto a minimum of 1/2-inch beyond each side of the joint.

Fill joints between 1/4-inch and 3/4-inch wide with one of the following methods:

Method A: Fill the gap with a backer rod, when feasible, and an application of Detail Sealant PW. Tool the application to a uniform finish flush with the face of the substrate(s). Allow Detail Sealant PW a minimum of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures.

Method B: Fill the gap with expandable two-part Urethane foam and then sand the dried foam flush with the face of the substrate(s).

Fill joints greater than 3/4-inch with sheathing strips and then proceed as above.

Cover these methods with the Airlok Flex VP field coating, allow 24 hours to dry, then apply a 6-inch wide strip of UV365™ Flashing, UV365™ Ultra Flashing, or 400 Flashing over the joints, following the product instructions for surface preparation and installation. For ambient and substrate surface temperatures between 25°F (-4°C) and 40°F (5°C), refer to Polyguard's Technical Bulletin on Cold Weather Applications for the flashing installation.

For NFPA 285 Assemblies, reinforce either joint flashing method with a coating of Detail Sealant PW applied onto a 3-inch wide, 1/4-inch drywall mesh centered over the gap.

Poured Concrete, CMU and Sheathed Walls:

Fill annular spaces around wall penetrations in these walls, on the interior and exterior sides of the wall; and, where possible, with a sized backer rod and Detail Sealant PW™, extending the material onto a minimum of a 1/2-inch of the surrounding wall space and penetration sidewall(s) with a tooled and uniform finish.

Submit expansion joint design to Polyguard Products, Inc. for approval prior to commencing work.

PRIMING

No substrate priming is necessary.

MEMBRANE APPLICATION

Apply Airlok Flex® VP and related accessory products over sheathing and penetration substrates that are clean, dry, and free of loose material and frost.

Apply Airlok Flex VP and related accessory products over poured concrete and CMU walls that have cured three days minimum, are clean and dry to the touch, and free of loose material and frost.

Apply in ambient temperatures and on a surface temperature of 40°F (5°C) and rising up to a maximum temperature of 120°F (49°C).

Apply at a rate of 50 ft² per gallon (32 mils wet). Coverage will be inversely related to texture and porosity of the substrate. DensGlass® Gold exterior gypsum sheathing was used to determine the coverage standard. Applications can be made by brush, roller, or airless sprayer, having a minimum pressure of 2500 PSI. Best spray results occur using a 0.027–inch reversible tip.

After Airlok Flex® VP application, allow 24 hours to dry, maintaining a minimum temperature of 40°F (5°C).

Apply Detail Sealant PW™ either before or after the application of Airlok Flex VP and by following the specific instructions in the Detail Sealant PW data sheet.

Rough Openings:

Note: Flat sills are acceptable planes for air barrier design. Incorporating the best water management principles with an air barrier design will have the sills sloping to drain.

Cover rough opening surfaces with Airlok Flex® VP.

Cover rough opening sills and 3-inches of the bottom of each jamb using one of the following accessory materials: a 20-mil thickness of Detail Sealant PW™, UV365™ Flashing, UV365™ Ultra Flashing, 400 Flashing. For UV365™ Flashing, UV365™ Ultra Flashing, or 400 Flashing, extend the coverage 3-inches onto the adjoining sheathing.

INSPECTION

Coverage is considered complete when the dry coating has been inspected and found to be continuous. The coating is considered dry when the face of the coating will not deform under heavily applied thumb pressure.

REPAIR

Repair omissions, deficiencies, and damage by cleaning the subject area with either a clean rag and water or a 30% solution of isopropyl alcohol and water. Allow the cleaned surface to dry before applying additional material.

Masonry Anchors: Install masonry tie fasteners through sheathing joints that have been filled with (cured) Detail Sealant PW. For ties that will not align over joints filled with (cured) Detail Sealant PW, proceed with one of the following tie fastener placement methods:

Method A: Apply a 1/4-inch daub of Detail Sealant PW on the wall interfacing side of the fastener hole in the tie, and then fasten the tie to the structure, or;

Method B: Install a minimum 2-inch wide strip of UV365™ Flashing, UV365™ Ultra Flashing, or 400 Flashing onto the face of dry Airlok Flex® VP. Position the flashing strip to be centerline penetrated by the fastener(s).

STORAGE

Store Airlok Flex® VP as follows;

- 1) Keep from freezing in an environment having a temperature range between 40°F (5°C) and 100°F (38°C). For best application results, store in ambient temperatures above 50°F (11°C).
- 2) On a stable surface with lid securely closed.
- 3) In compliance with local governing regulations.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at (214) 515-5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc. P.O. Box 755, Ennis, TX 75120-0755
Sales: (615) 217-6061 • Tech Support: (214) 515-5000 • Fax: (615) 691-5500
Email: archtech@polyguard.com
Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray Opaque
AIR PERMEANCE – GYPSUM SHEATHING @ 70 ft ² /gal	ASTM E 2178-01	0.0037 cfm/ft ² @ 75 Pa
AIR PERMEANCE – BLOCK @ 50 ft ² /gal	ASTM E 2178-01	0.003 cfm/ft ² @ 75 Pa
AIR LEAKAGE & DURABILITY	ASTM E 2357	0.002 cfm/ft ² @ 75 Pa
PULL ADHESION	ASTM D 4541	100+ PSI average
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96 Method B	10 perms
ELONGATION	ASTM D 412	500%
EVALUATION OF FIRE PROPOGATION CHARACTERISTICS	NFPA 285	PASS
ULTRAVIOLET (UV) RADIATION EXPOSURE LIMIT	BY MANUFACTURER	Up to 1 year
VOLATILE ORGANIC COMPOUNDS (VOC)		< 50 G/L

PACKAGING	PART NUMBER	UNIT SIZE
AIRLOK FLEX® VP	ALFLEXVP 05	5 gallon pail
<i>Proban® mold inhibitor can be added at the factory to Airlok Flex® VP</i>	ALFLEXVP 50	50 gallon drum
AIRLOK FLEX® VP Accessories:		
DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW – 3 GAL	3 gallon pail
UV365™ FLASHING – 40 MIL (SIZES AVAILABLE: 6", 9", 12", 18")	varies/size	75' roll
UV365™ ULTRA FLASHING - 40 MIL (SIZES AVAILABLE: 6", 9", 12", 18")	varies/size	75' roll
400 FLASHING - 40 MIL (SIZES AVAILABLE: 6", 9", 12", 18")	varies/size	75' roll
QUICK GRIP SPRAY ADHESIVE	QGADH30	30# canister

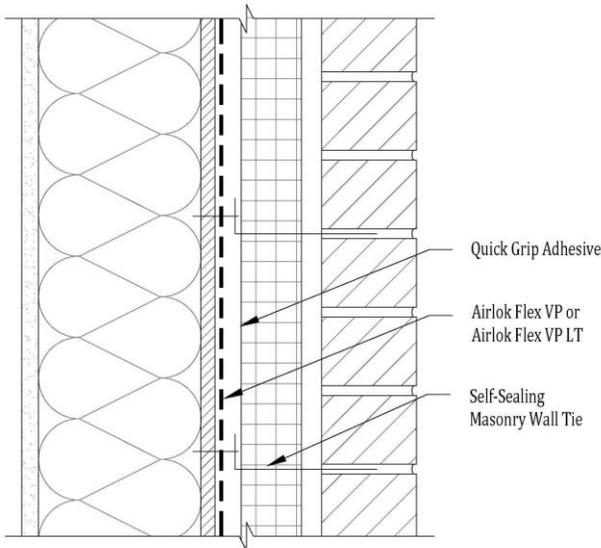
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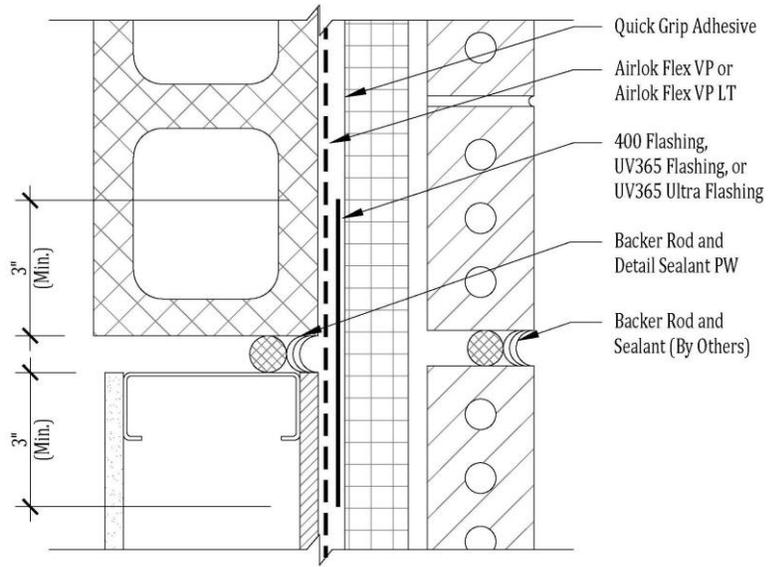


Common Polyguard® Airlok Flex® VP and Airlok Flex® VP LT Membrane Applications

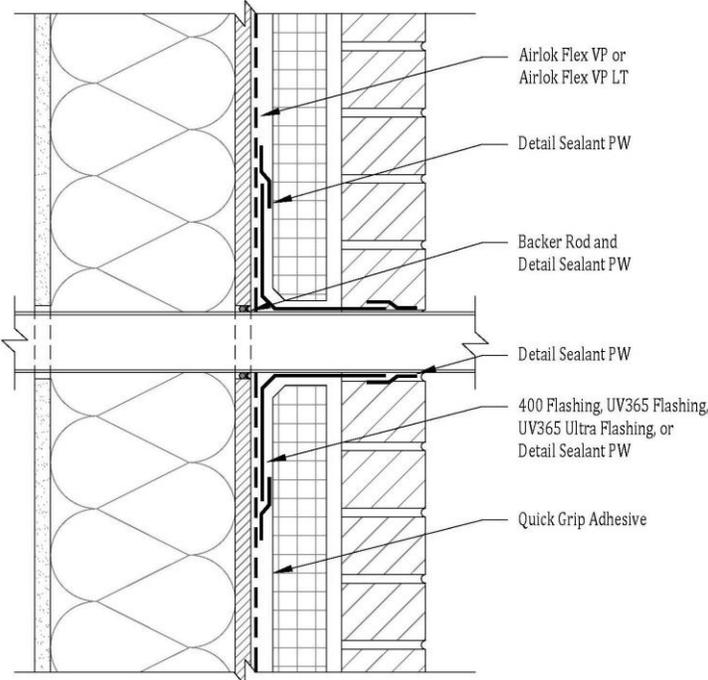
These diagrams are not intended to be application instructions, simply illustrations



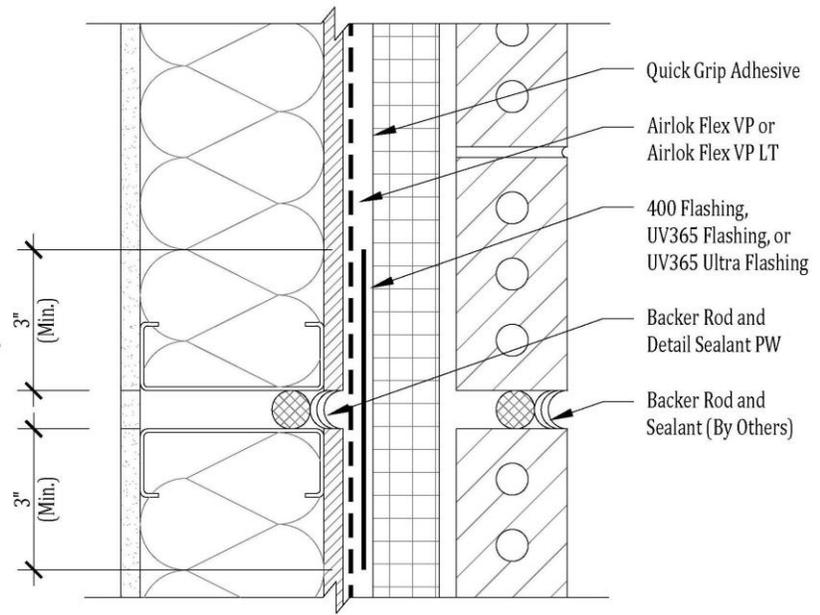
Airlok Flex VP or Airlok Flex VP LT Typical Wall



Airlok Flex VP or Airlok Flex VP LT Typical Wall



Airlok Flex VP or Airlok Flex VP LT Penetration



Airlok Flex VP or Airlok Flex VP LT Expansion Joint

Please Note: Not intended to be full details. For full application detail on these configurations, see Polyguard Airlok Flex VP or Airlok Flex VP LT details or contact Polyguard Products.

SECTION 07 27 26

VAPOR PERMEABLE FLUID-APPLIED AIR BARRIER MEMBRANE

This guide specification has been prepared by Polyguard Products Inc., in electronic and printed media, as an aid to specifiers in preparing written construction documents for vapor-permeable, fluid-applied air barrier membranes. Polyguard® Airlok Flex® VP (Vapor Permeable) is a fluid-applied, acrylic-based, vapor-permeable membrane that forms a tough, continuous, bonded elastomeric barrier.

Edit entire master document to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences may contain choices to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance-, proprietary-, and descriptive-type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these editor notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.

For specification assistance on specific product applications, please contact our offices above or any of our local product representatives throughout the country.

Polyguard Products Inc. reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer's web site and/or in printed media as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of liquid applied vapor permeable air barrier.
- C. Materials for:
 - 1. All penetrations through the wall assembly.
 - 2. Connections to foundation walls.
 - 3. Walls, windows, curtain walls, storefronts, louvers or doors.
 - 4. Expansion and control joints.
 - 5. Masonry ties.
 - 6. Wall and roof connections and penetrations.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 04 20 00 - Unit Masonry.
- B. Section 07 21 00 - Thermal Insulation.
- C. Section 07 50 00 - Membrane Roofing.
- D. Section 07 60 00 - Flashing and Sheet Metal.
- E. Section 07 70 00 - Roof and Wall Specialties and Accessories.
- F. Section 07 80 00 - Fire and Smoke Protection.
- G. Section 07 92 00 - Joint Sealants.
- H. Section 08 10 00 - Doors and Frames.
- I. Section 08 50 00 - Windows.
- J. Section 09 20 00 - Plaster and Gypsum Board.

1.03 REFERENCES

- A. ASTM D 412 (06a) – Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
- B. ASTM D 4541 - Standard Test Method for Pull-off Strength of Coatings Using Portable Adhesion Testers.
- C. ASTM E 96 – Standard Test Method for Water Vapor Transmission of Materials.
- D. ASTM E 2178 (01) – Standard Test Method for Air Permeance of Building Materials.
- E. ASTM E 2357 (05) – Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.
- F. ICC ES-AC 212 - Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers on Exterior Sheathing
- G. NFPA 285 – Standard Test Method of determining the flammability characteristics of exterior, non-load bearing wall assemblies/panels.

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.
- C. Sustainable Design Submittals:
 - 1. Submit invoices and documentation from manufacturer of the amounts of materials and content for products specified.
 - 2. Submit invoices and documentation showing manufacturing locations and origins of materials for products manufactured and sourced within 500 miles of project site.
- D. LEED Submittal: Documentation of materials, recycled content and location of manufacturer.
 - 1. LEED MR Credit 2 – Construction Waste Management: Provide documentation of reusable materials by weight and volume diverted back to manufacturing process or to appropriate sites.
 - 2. LEED, MR Credit 5 – Regional Materials: Provide documentation for cost of materials or products that have been extracted, harvested, or recovered and also manufactured within 500 miles of project site.
 - a. If only a portion of the materials or products is extracted, harvested, or recovered and manufactured locally, then only provide percentage by weight for credit value.
 - 3. LEED EA Credit 1 - Optimize Energy Performance: Provide documentation verification for materials increasing levels of energy performance above the baseline in the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Fluid-applied membrane must be manufactured by a company with a minimum of ten (10) years of experience in the production and sales of membrane materials.
- B. Applicator Qualifications: A firm having at least three (3) years of experience in applying these types of specified materials and specifically accepted in writing by the membrane system manufacturer.
- C. Materials: For each type of material required to complete the work of this section, provide primary materials which are the products of a single manufacturer.

- D. Pre-Application Conference: A pre-application conference shall be held to establish procedures and to review conditions, installation procedures and coordination with other related work. Meeting agenda shall include review of special details and flashing.
- E. Manufacturer's Representative: Arrange to have trained representative of the manufacturer on-site periodically to review installation procedures.

1.06 MOCK-UPS

- A. Prior to installation of air barrier, apply air barrier as mock-up example to verify details under shop drawing submittals and to demonstrate tie-ins with adjoining construction, and other termination conditions, as well as qualities of materials and execution.
- B. Construct typical exterior wall panel, 6 feet long by 6 feet wide, incorporating back-up wall, cladding, window and door frame and sill, insulation, flashing; illustrating materials interface and seals.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, dry area and on a stable surface with the lid securely closed in accordance with manufacturer's instructions and local governing regulations.
- C. Store at temperatures at or above 40°F (5°C), free from contact with cold or frozen surfaces. For best application results, store in ambient temperatures above 50°F (11°C).
- D. Protect materials during handling and application to prevent damage or contamination.

1.08 PROJECT CONDITIONS

- A. Proceed with installation only when substrate construction and preparation work is complete.
- B. Warn personnel against breathing of vapors and contact with skin and eyes; also wear appropriate protective clothing and respiratory equipment.
- C. Maintain work area in a neat and workmanlike condition. Remove empty cartons and rubbish from the site daily.

1.09 WARRANTY

- A. Manufacturer warrants only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized, and prior condition of the substrate. We will replace, at no charge, proven defective product within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Polyguard Products Inc. P.O. Box 755 Ennis, TX 75120-0755; Phone: (214) 515-5000
Fax: (972) 875-9425 Email: info@polyguard.com

2.02 MATERIALS

- A. Polyguard® Airllok Flex® VP [*option: with or without* Proban® mold inhibitor] is a fluid-applied, acrylic-based, vapor-permeable membrane.
 - 1. Performance-based Specification: Air barrier membrane shall be acrylic based, that cures to form a tough, continuous, bonded elastomeric membrane having the following characteristics:

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray Opaque
AIR PERMEANCE – GYPSUM SHEATHING @ 70 ft ² /gal	ASTM E 2178-01	0.0037 cfm/ft ² @ 75 Pa
AIR PERMEANCE – BLOCK @ 50 ft ² /gal	ASTM E 2178-01	0.003 cfm/ft ² @ 75 Pa
AIR LEAKAGE & DURABILITY	ASTM E 2357	0.002 cfm/ft ² @ 75 Pa
PULL ADHESION	ASTM D 4541	100+ PSI average
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96 Method B	10 perms
ELONGATION	ASTM D 412	500%
EVALUATION OF FIRE PROPOGATION CHARACTERISTICS	NFPA 285	PASS
ULTRAVIOLET (UV) RADIATION EXPOSURE LIMIT	BY MANUFACTURER	Up to 1 year
VOLATILE ORGANIC COMPOUNDS (VOC)		< 50 G/L

2.03 ACCESSORIES

- A. Flashing: Polyguard® UV365™ Flashing is a 40-mil, composite membrane, consisting of a foil/polyscrim, laminated to a layer of rubberized-asphalt and is used for wall flashing, through-wall flashing (TWF), and joint flashing, and non-vapor permeable sheet air barrier.
- B. Flashing: Polyguard® UV365™ Ultra Flashing is a 40-mil, laminated, modified-asphalt, self-adhesive flashing membrane bonded to a cross-laminated polyethylene sheet with a top protective layer of aluminum and is used for wall flashing, through-wall flashing (TWF), and joint flashing, and non-vapor permeable sheet air barrier.
- C. Flashing: Polyguard® 400 Flashing is a 40-mil, laminated, modified-asphalt, self-adhesive flashing membrane bonded to a cross-laminated polyethylene sheet and is used for wall flashing, through-wall flashing (TWF), joint flashing, and non-vapor permeable sheet air barrier.
- D. Detail Sealant: Polyguard® Detail Sealant PW™ is a single-component, STPE, 100% solid moisture-cured, elastomeric sealant. It is an environmentally-friendly, non-isocyanate product that replaces silicone and urethane sealants. It is also a low VOC/HAPS free, cold-applied, self- adhesive, elastomeric sealant.
- E. Primer:
 - 1. Polyguard® Airluk Flex® VP serves as primer for the Polyguard® UV365™ Flashing, UV365™ Ultra Flashing, or 400 Flashing. No other primer is necessary.

PART 3 EXECUTION

3.01 EXAMINATION

- A. All surfaces to be treated must be sound, dry, clean and free of dirt, excess mortar, or other contaminants. Masonry substrate shall have tooled mortar joints.
- B. Cutouts and breakouts for support columns and beams are to be filled and made flush with the substrate by others prior to commencing work.
- C. Masonry and new concrete shall have been cured a minimum of three (3) days and must be dry at time of application.
- D. Design Professional to verify substrate and conditions are acceptable to commence work within this section. Examine surfaces to receive membrane. Notify Architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.02 SURFACE PREPARATION

- A. Surface must be clean and dry: free of mortar or gypsum smears, ice, frost or excess moisture.
- B. Knock off form ties on both sides of a concrete wall and fill flush with Polyguard® Detail Sealant PW™ or non-shrinking Portland cement grout, installed per manufacturer's instructions. Allow Detail Sealant PW a minimum of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures. Cure time is less than an hour at 75°F (24°C) and 50% RH.

- C. Leave CMU wall unparged.
- D. Fill minor voids with a 20-mil coating of Polyguard® Detail Sealant PW™. Allow Detail Sealant PW™ a minimum of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures. Cure time is less than an hour at 75°F (24°C) and 50% RH.
- E. Fill voids in exterior gypsum sheathing to flush with the substrate with Polyguard® Detail Sealant PW™. Allow Detail Sealant PW™ a minimum of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures. Cure time is less than an hour at 75°F (24°C) and 50% RH.
- F. Open joints are to be filled with foam or a tooled 20-mil coating of Polyguard® Detail Sealant PW™. Allow Detail Sealant PW™ a minimum of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures. Cure time is less than an hour at 75°F (24°C) and 50% RH. Tight joints can be coated without additional preparation.

3.03 APPLICATION OF AIR BARRIER SYSTEM

- A. Install materials following manufacturer's guide specifications.
- B. Apply Polyguard® UV365™ Flashing, UV365™ Ultra Flashing, or 400 Flashing membrane after the fluid-applied application of Polyguard® Airlok Flex® VP to substrate. For ambient and substrate surface temperatures between 25°F (-4°C) and 40°F (5°C), refer to Polyguard's Technical Bulletin on Cold Weather Applications for the flashing installation.
- C. Apply Polyguard® Airlok Flex® VP evenly to substrate using brush, roller, or airless spray equipment; checking immediately for application thickness (32 mils wet).
- D. Apply Polyguard® Airlok Flex® VP over rough openings.
- E. Apply extra material at anchor ties and penetrations.
- F. Allow application to dry for twenty-four (24) hours, maintaining a minimum temperature of 40° F (5°C). Inspect for continuous coverage. If necessary, apply additional material as needed to provide a continuous coating.
- G. Fill control and transition joints with Polyguard® Detail Sealant PW™. Apply Polyguard® UV365™ Flashing, UV365™ Ultra Flashing, or 400 Flashing strips to window and door openings. Overlap end and side laps 2 inches. Roll all flashing to ensure seal. Seal top edge of flashing strips with a coating of Polyguard® Detail Sealant PW™. Trowel to feathered edge. For ambient and substrate surface temperatures between 25°F (-4°C) and 40°F (5°C), refer to Polyguard's Technical Bulletin on Cold Weather Applications for the flashing installation.
- H. Alternate: Transition and control joints can be filled prior to coating with Polyguard® Detail Sealant PW™, made flush with substrate, allow a minimum of 1 hour to skin over before covering, adding additional time for lower ambient and surface temperatures. Cure time is less than an hour at 75°F (24°C) and 50% RH. Then apply a full coat of Polyguard® Airlok Flex® VP as a continuous membrane across the joint.
- I. Measure application thickness with wet mil gauge. Check fresh application immediately.

3.04 PROTECTION

- A. For twenty-four (24) hours after installation, protect completed membrane system against water filling block cores. Protect finished air barrier system from adjacent work.

END OF SECTION

DETAIL SEALANT PW™

Adhesive/Sealant

PRODUCT NAME

Detail Sealant PW™

MANUFACTURER

Polyguard Products, Inc.
Ennis, TX 75119
(214) 515-5000
www.polyguard.com

PRODUCT DESCRIPTION

BASIC USES

Detail Sealant PW™ is designed for filling minor cast concrete cracks, concrete masonry cracks, gaps at head joints, penetrations, and gypsum sheathing joints. Detail Sealant PW can be applied to poured concrete, precast concrete, concrete masonry, metal, wood, and Polyguard Membrane Systems. Typical applications include filling tie holes, minor voids and wall surface planes, completing membranes or transition joints to provide a continuous smooth surface and/or continuous barrier protection. (Note: Detail Sealant PW is an equal replacement for Hole Filler and may also be used with Polyguard Membrane Systems).

When using below-grade as a component of the Polyguard Waterproofing Systems, Detail Sealant PW can be applied to voids in subterranean concrete, concrete masonry, and wood structures to prevent the way of positive-side water pressure.

COMPLIANCES

Conforms to ASTM C920, Type S, Grade NS, Class 50, Use T, NT, I, G and A. AAMA 802.3 Type II Back Bedding Compound.

COMPOSITION & MATERIALS

Detail Sealant PW™ is a single component, STPE, 100% solid moisture-cured, elastomeric sealant. It is an environmentally-friendly, non-isocyanate product that replaces silicone and urethane sealants. It is a low VOC/HAPS free, cold-applied, self-adhesive, elastomeric sealant.

TECHNICAL DATA

See physical properties table

INSTALLATION

SURFACE PREPARATION

A clean, dry and sound surface is required. Remove any loose materials or particles before application. Surface must be free of frost or ice.

PRIMING

No priming is necessary. Detail Sealant PW can be applied directly to the substrate.

Alternate: Detail Sealant PW is compatible with Polyguard Membrane Systems.

APPLICATION

Apply Detail Sealant PW™ to fill tie holes, minor surface defects, voids, gaps, or transition joints. Transition joints shall be applied like a caulk making sure product is injected into the joint as well as applied to the surface. Honeycombed concrete is not considered a minor void and must be filled by some other means. Use this product with adequate ventilation. Detail Sealant PW is tack-free in less than an hour and cured in 24 hours at 75°F (24°C) and 50% RH. It is permissible and cost effective to detail after Polyguard Membrane Systems installation.

CLEAN-UP

Use citrus-type hand washes for personal hygiene, and immediately use mineral spirits for tools and equipment.

PROTECTION

Non-yellowing and UV resistant. Can be painted.

STORAGE

For maximum shelf life, store unopened product at or below 80°F (27°C). Shelf life for pails is 6 months and sausage packs is 12 months.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.
P.O. Box 755, Ennis, TX 75120-0755
Sales: (615) 217-6061 • Tech Support: (214) 515-5000 • Fax: (615) 691-5500
Email: archtech@polyguard.com
Website: www.polyguard.com

Product Data Sheet

PROPERTY	TEST METHOD	TYPICAL VALUE
TENSILE STRENGTH	ASTM D 412	225 PSI
ELONGATION	ASTM D 412	275%
AIR LEAKAGE & DURABILITY	ASTM E 2357	0.0002 CFM/ft ²
NAIL SEALABILITY	ASTM D 1970	Pass
COLD TEMP FLEXIBILT Y	ASTM D 1970	Pass
PENETRATION - SHORE A	ASTM C 661	36
SKIN TIME		Less than an hour @ 75°F and 50% RH
LAP SHEAR		275 PSI
LOW TEMPERATURE FLEXIBILITY		Properties retained to -75°F
SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS	ASTM E 84	Flame Spread: 35 Smoke Development: 15
ULTRAVIOLET RADIATION (UV) RATING	ASTM G 26	2000+ hours UV-A no change in appearance or physical properties
SOLIDS	ASTM D 2369	100%
VOLATILE ORGANIC COMPOUNDS (VOC)		9 g/l VOC

PACKAGING	PART NUMBER	UNIT SIZE
DETAIL SEALANT PW™	DETAIL SEALANT PW - SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW - 3 GAL	3-gallon pail

P.O. Box 755
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400 FLASHING

(TWF) Through Wall Flashing Membrane

PRODUCT NAME

400 Flashing

MANUFACTURER

Polyguard Products, Inc.
Ennis, TX 75119
(214) 515-5000
www.polyguard.com

PRODUCT DESCRIPTION

BASIC USES

400 Flashing primary uses are for window flashing, wall flashing, through wall flashing (TWF), joint flashing, and non-vapor permeable sheet air barrier.

ACCESSORIES

- 650 LT Liquid Adhesive, a rubber-based, tacky adhesive which is specifically formulated to provide excellent adhesion.
- California Sealant is a rubber-based sealant which is specifically formulated to provide excellent adhesion.
- Shur-Tac Liquid Adhesive is a polymer emulsion based adhesive which is specifically formulated to provide excellent adhesion.
- Detail Sealant PW™ is a single-component, STPE, 100% solid, moisture-cured, elastomeric sealant. It is an environmentally-friendly, non-isocyanate product that replaces silicone and urethane sealants. It is a low VOC/HAPS free, cold-applied, self-adhesive, elastomeric sealant.
- LM-95, a two-component, asphalt-modified, urethane material.
- Prefabricated End Dams and Corners are preformed and self-adhesive, and are used around windows, door openings, beam headers, lintels, and through wall flashings (TWF) forming a continuous water deterrent seal.

Note: When using 400 Flashing in fluid-applied air barrier applications, please refer Polyguard's specified air barrier product data sheet or contact a Polyguard representative.

PRODUCT FEATURES

400 Flashing offers many advantages over other flashing systems:

- **Strong, yet flexible:** 400 Flashing can be field cut and shaped to meet various job site conditions.
- **Fully adhered:** The rubberized-asphalt membrane adheres tenaciously to the surface and itself, eliminating membrane blow-off and tears before exterior wall finish installation.
- **Permanent:** Once installed and covered with cladding, the membrane will not rot or decay from mildew or mold.
- **Stretchable:** 400 Flashing can accommodate a high degree of structural movement.

Product Data Sheet

- **Self-sealing:** The rubberized-asphalt properties allow for self-sealing seams and misplaced fasteners that are left in place at temperatures above 40°F (5°C).
- **End Dams and Corners:** Preformed end dams and corners provide a low cost through wall flashing (TWF) alternative to expensive fabricated metal end dams and corner systems.
- **Packaging:** 400 Flashing is packaged in 75-foot rolls and available in various widths from 6" to 18".
- **Slit Release Film (SRF):** The 400 Flashing comes with a slit release paper liner for ease of installation.

COMPOSITION & MATERIALS

400 Flashing is a 40-mil, laminated, modified-asphalt, self-adhesive flashing membrane bonded to a cross-laminated polyethylene sheet.

TECHNICAL DATA

See physical properties table.

INSTALLATION

GENERAL

Read and carefully follow the instructions in this document.

OVERVIEW NOTES: 400 Flashing is designed for UV exposure of 30 days or less. In TWF applications, trim the forward edge 5/8-inch from either the face of the wall or from the forward bend in exposed metal drips or counters.

400 Flashing requires support across gaps and openings greater than 1/8-inch. Modify any 90-degree intersections, i.e. between walls and ledges, to have a sloped transition from the vertical-to-horizontal plane.

On all overlaps, install at a minimum of a 2 1/2-inch side lap and 6-inch end lap.

Draining the flashing and TWF via dedicated weeps, closing discontinuous flashing ends with end dams, mechanically terminating and sealing the top edge of a flashing in cavity wall construction, and sealing the top edge of a flashing in non-cavity wall construction, are essential and integral parts of fully functioning and long-term performing flashing and TWF.

BEST PRACTICE INSTALLATION STEPS

1. Install 400 Flashing in ambient and substrate surface temperatures of 40°F (5°C) and rising. Conduct a field adhesion test at temperatures below 40°F (5°C) prior to application.
2. Prepare the surfaces to receive the flashing.
3. Apply a coating of 650 LT Liquid Adhesive, California Sealant, or Shur-Tac Liquid Adhesive. If a substrate has been coated with Airlok Flex[®], Airlok Flex VP, Airlok Flex VP LT, Airlok Flex WG, or Airlok Flex WG LT and the coating is cured, priming with a liquid adhesive is not necessary.

4. Per construction documents, install Drip Edge.
5. Install 400 Flashing.
6. Apply pressure over the face of the installed membrane with a hard-surfaced rubber roller or similar blunt instrument.
7. Terminate the top edge of flashing with Detail Sealant PW. Termination Bar is recommended.

GUARANTEE

400 Flashing will meet published specifications at the time of delivery.

STORAGE

System components should be unloaded and stored in such a manner that prevents damage to the materials. All containers shall be protected from weather and can lids securely fastened.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at (214) 515-5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

P.O. Box 755, Ennis, TX 75120-0755

Sales: (615) 217-6061 • Tech Support: (214) 515-5000 • Fax: (615) 691-5500

Email: archtech@polyguard.com

Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
MEMBRANE THICKNESS	ASTM D 1000	40 Mils
SERVICE TEMPERATURE	-	-40°F to 160°F (-40°C to 71°C)
TENSILE STRENGTH - MEMBRANE	ASTM D 412 Modified Die C	675 PSI
TENSILE STRENGTH - FILM	ASTM D 882 Modified	6530 PSI
ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT	ASTM D 412 Modified Die C	200%
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96 Method B	0.04 Perms
PUNCTURE RESISTANCE - MEMBRANE	ASTM E 154	63.4 lbf
PUNCTURE RESISTANCE - FILM	ASTM E 154	42.8 lbf
PEEL ADHESION	ASTM D 903	12.1 lbs/in. width
LAP PEEL ADHESION	ASTM D 1876	8.96 lbs/in. width
AIR PERMEANCE OF AN ASSEMBLY	ASTM E 2357	0.0008cfm/ft ² @ 1.57 psf
WATER ABSORPTION	ASTM D 570	0.1%

PACKAGING	PART NUMBER	UNIT SIZE
400 FLASHING (SRF) 6"	40006	6 - 6" x 75' rolls
400 FLASHING (SRF) 9"	40009	4 - 9" x 75' rolls
400 FLASHING (SRF) 12"	40012	3 - 12" x 75' rolls
400 FLASHING (SRF) 18"	40018	2 - 18" x 75' rolls
FLASHING Accessories		
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 5 GA	5 gallon pail
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 1 GA	4 - 1 gal pails/ctn
CALIFORNIA SEALANT	CALSEAL5	5 gallon pail
SHUR-TAC LIQUID ADHESIVE	SHUR-TAC5	5 gallon pail
SHUR-TAC LIQUID ADHESIVE	SHUR-TAC1	4 - 1 gal pails/ctn
LM-95	LM952	2 gallon pail
DETAIL SEALANT PW™	DETAIL SEALANT PW - SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW - 3 GAL	3 gallon pail
PF END DAM (an accessory for TWF)	CORNERIN3X3X3	3" x 3" x 3"
PF INSIDE CORNER/PF END DAM (an accessory for TWF)	CORNERIN8X8X8	8" x 8" x 8"
PF OUTSIDE CORNER (an accessory for TWF)	CORNEROUT7X7X8	7" x 7" x 8"

SRF indicates Slit Release Film

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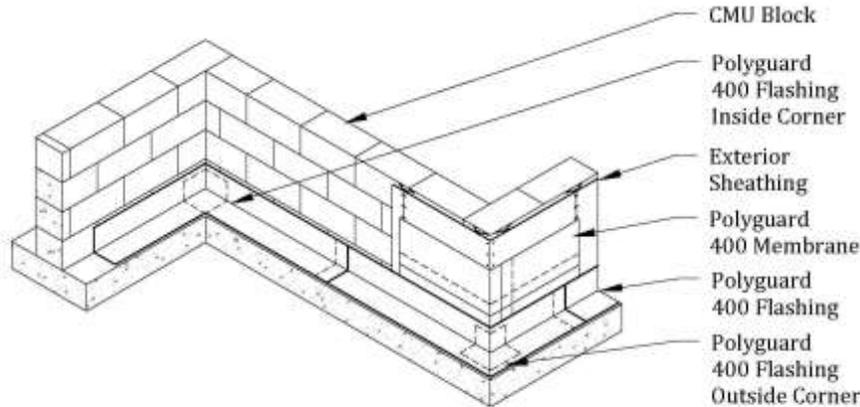
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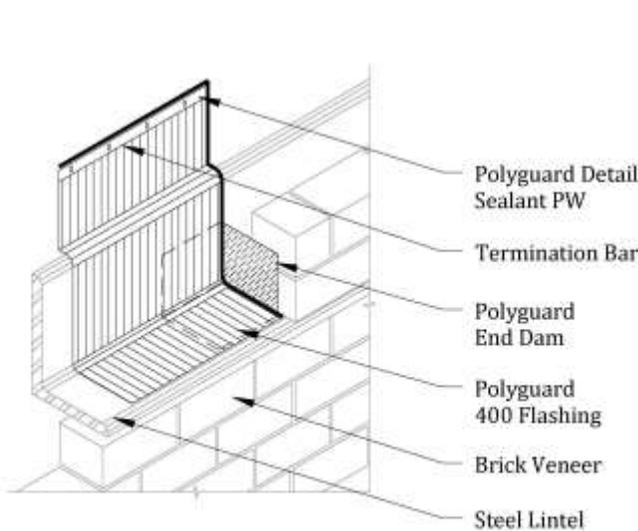


Common Polyguard® 400 Flashing Applications

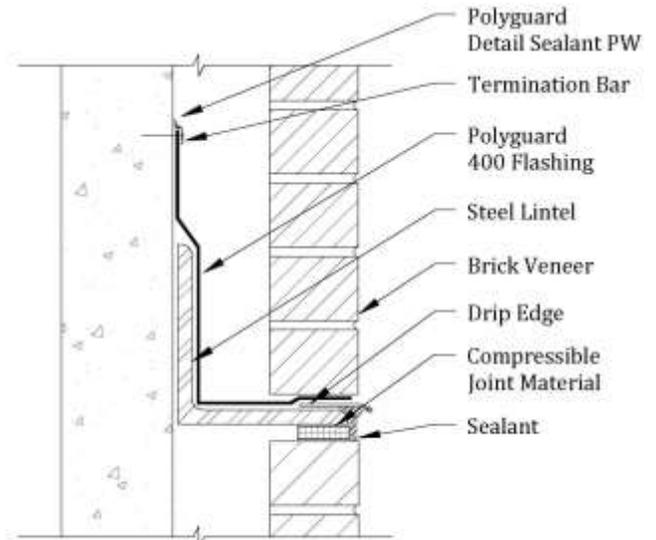
These diagrams are not intended to be application instructions, simply illustrations



400 Flashing Inside & Outside Corners (Overview)



400 Flashing End Dam



400 Flashing Steel Lintel

Please Note: Not intended to be full details. For full application detail on these configurations, see Polyguard 400 Flashing details or contact Polyguard Products.

UV365™ FLASHING

Aluminum Flashing Membrane

PRODUCT NAME

UV365™ Flashing

MANUFACTURER

Polyguard Products, Inc.
Ennis, TX 75119
(214) 515-5000
www.polyguard.com

PRODUCT DESCRIPTION

BASIC USES

UV365™ Flashing primary uses are for window flashing, wall flashing, joint flashing, and non-vapor permeable sheet air barrier.

ACCESSORIES

- 650 LT Liquid Adhesive, a rubber-based, tacky adhesive which is specifically formulated to provide excellent adhesion.
- California Sealant is a rubber-based sealant which is specifically formulated to provide excellent adhesion.
- Shur-Tac Liquid Adhesive is a polymer emulsion based adhesive which is specifically formulated to provide excellent adhesion.
- Detail Sealant PW™ is a single-component, STPE, 100% solid, moisture-cured, elastomeric sealant. It is an environmentally-friendly, non-isocyanate product that replaces silicone and urethane sealants. It is a low VOC/HAPS free, cold-applied, self-adhesive, elastomeric sealant.
- Prefabricated End Dams and Corners are preformed and self-adhesive, and are used around windows, door openings, beam headers, lintels, and through wall flashings (TWF) forming a continuous water deterrent seal.

Note: When using UV365 Flashing in fluid-applied air barrier applications, please refer Polyguard's specified air barrier product data sheet or contact a Polyguard representative.

PRODUCT FEATURES

UV365™ Flashing offers many advantages over other flashing systems:

- **UV Resistant:** UV365 Flashing resists sunlight for up to 1 year.
- **Strong, yet flexible:** UV365 Flashing can be field cut and shaped to meet various job site conditions.
- **Fully adhered:** The rubberized-asphalt membrane adheres tenaciously to the surface and itself, eliminating membrane blow-off and tears before exterior wall finish installation.
- **Permanent:** Once installed and covered with cladding, the membrane will not rot or decay from mildew or mold.

Product Data Sheet

- **Self-sealing:** The rubberized-asphalt properties allow for self-sealing seams and misplaced fasteners that are left in place at temperatures above 40°F (5°C).
- **Packaging:** UV365 Flashing is packaged in 75-foot rolls and available in various widths from 6" to 18".
- **Slit Release Film (SRF):** UV365 Flashing comes with a slit release paper liner for ease of installation.

COMPOSITION & MATERIALS

UV365™ Flashing is a 40-mil, composite membrane, consisting of a foil/polyscrim film, laminated to a layer of rubberized-asphalt.

TECHNICAL DATA

See physical properties table.

INSTALLATION

GENERAL

Read and carefully follow the instructions in this document.

OVERVIEW NOTES: UV365 Flashing is designed for UV exposure up to 1 year.

UV365 Flashing requires support across gaps and openings greater than 1/8-inch. Modify any 90-degree intersections, i.e. between walls and ledges, to have a sloped transition from the vertical-to-horizontal plane.

On all overlaps, install at a minimum of a 2 1/2" side lap and 6" end lap.

Draining the flashing via dedicated weeps, closing discontinuous flashing ends with end dams, mechanically terminating and sealing the top edge of a flashing in cavity wall construction, and sealing the top edge of a flashing in non-cavity wall construction, are essential and integral parts of fully functioning flashing materials.

BEST PRACTICE INSTALLATION STEPS

1. Install UV365™ Flashing in ambient and substrate surface temperatures of 40°F (5°C) and rising. Conduct a field adhesion test at temperatures below 40°F (5°C) prior to application.
2. Prepare the surfaces to receive the flashing.
3. Apply a coating of 650 LT Liquid Adhesive, California Sealant, or Shur-Tac Liquid Adhesive. If a substrate has been coated with Airlok Flex®, Airlok Flex VP, Airlok Flex VP LT, Airlok Flex WG, or Airlok Flex WG LT and the coating is cured, priming with a liquid adhesive is not necessary.
4. Per construction documents, install Drip Edge.
5. Install UV365™ Flashing.
6. Apply pressure over the face of the installed membrane with a hard-surfaced rubber roller or similar blunt instrument.

7. Terminate the top edge of flashing with Detail Sealant PW. Termination Bar is recommended.

GUARANTEE

UV365 Flashing will meet published specifications at the time of delivery.

STORAGE

System components should be unloaded and stored in such a manner that prevents damage to the materials. All containers shall be protected from weather and can lids securely fastened.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at (214) 515-5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results

obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

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Email: archtech@polyguard.com

Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
MEMBRANE THICKNESS	ASTM D 1000	40 Mils
TENSILE STRENGTH - MEMBRANE	ASTM D 412 Modified Die C	346 PSI
TENSILE STRENGTH - FILM	ASTM D 882 Modified	9790 PSI
ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT	ASTM D 412 Modified Die C	173%
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96 Method B	0.07 Perms
PUNCTURE RESISTANCE - MEMBRANE	ASTM E 154	38 lbf
PUNCTURE RESISTANCE - FILM	ASTM E 154	33.9 lbf
LOW TEMPERATURE PLIABILITY	ASTM D 146 Modified	Pass
PEEL ADHESION	ASTM D 903	10.32 lbs/in. width
LAP PEEL ADHESION	ASTM D 1876	6.1 lbs/in. width

PACKAGING	PART NUMBER	UNIT SIZE
UV365™ FLASHING (SRF) 6"	UV365-40006	6 - 6" x 75' rolls
UV365™ FLASHING (SRF) 9"	UV365-40009	4 - 9" x 75' rolls
UV365™ FLASHING (SRF) 12"	UV365-40012	3 - 12" x 75' rolls
UV365™ FLASHING (SRF) 18"	UV365-40018	2 - 18" x 75' rolls
FLASHING Accessories		
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 5 GA	5-gallon pail
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 1 GA	4 - 1 gal pails/ctn
CALIFORNIA SEALANT	CALSEAL5	5-gallon pail
SHUR-TAC LIQUID ADHESIVE	SHUR-TAC5	5-gallon pail
SHUR-TAC LIQUID ADHESIVE	SHUR-TAC1	4 - 1 gal pails/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW - SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW - 3 GAL	3-gallon pail
PF END DAM (an accessory for TWF)	CORNERIN3X3X3	3" x 3" x 3"
PF INSIDE CORNER/PF END DAM (an accessory for TWF)	CORNERIN8X8X8	8" x 8" x 8"
PF OUTSIDE CORNER (an accessory for TWF)	CORNEROUT7X7X8	7" x 7" x 8"

SRF indicates Slit Release Film

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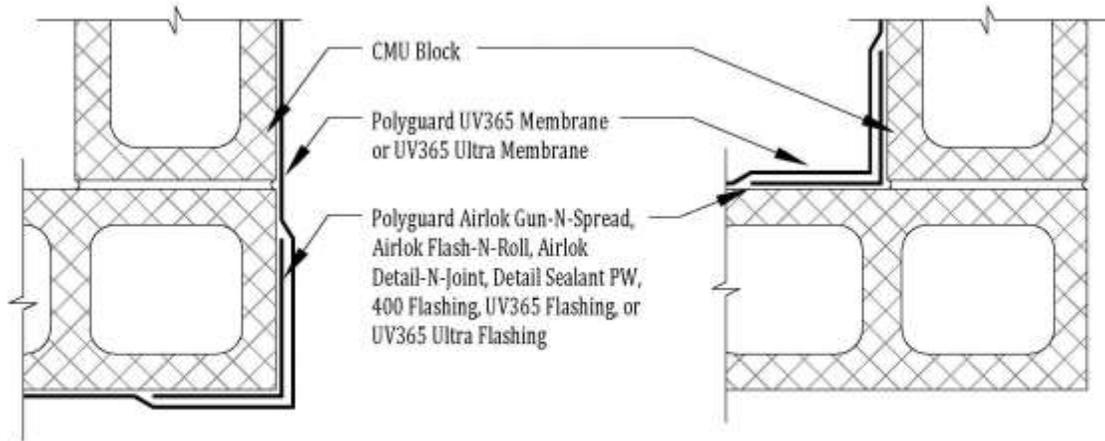
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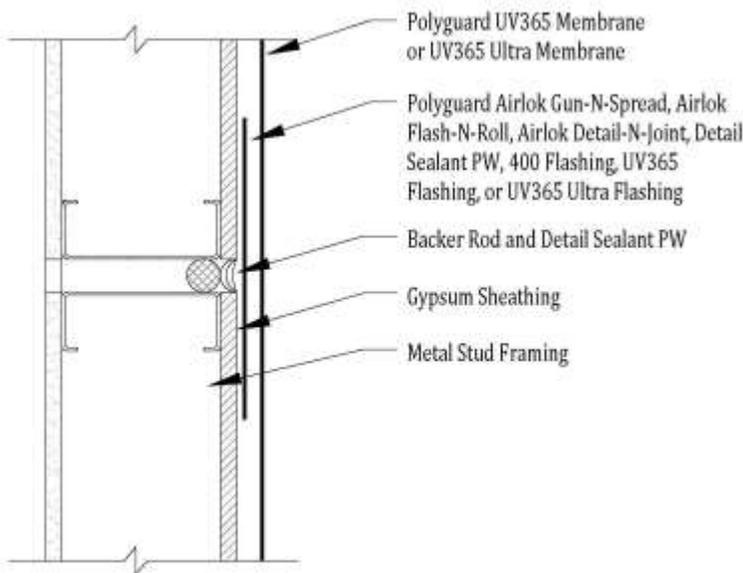


Common Polyguard® UV365™ Flashing and UV365™ Ultra Flashing Applications

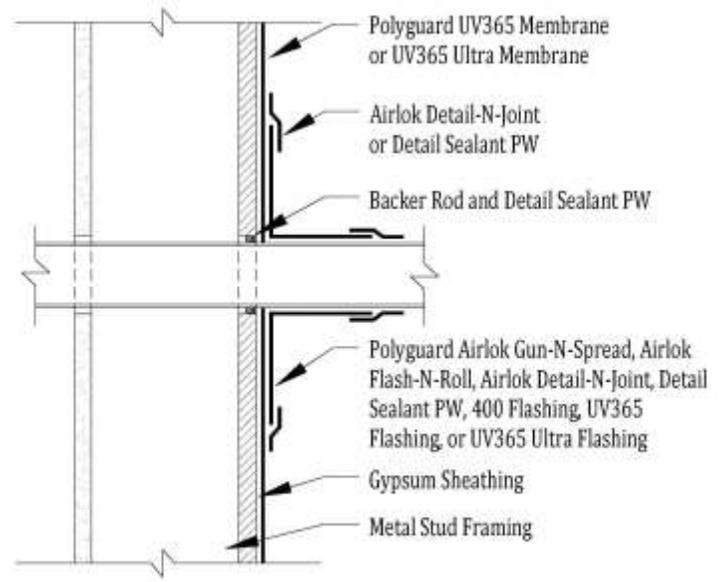
These diagrams are not intended to be application instructions, simply illustrations



Inside & Outside Corner Flashing



Control Joint Flashing



Penetration Flashing

Please Note: Not intended to be full details. For full application detail on these configurations, see Polyguard UV365 Flashing details, UV365 Ultra Flashing details, or contact Polyguard Products.

UV365™ ULTRA FLASHING

Aluminum Flashing Membrane

PRODUCT NAME

UV365™ Ultra Flashing

MANUFACTURER

Polyguard Products, Inc.
Ennis, TX 75119
(214) 515-5000
www.polyguard.com

PRODUCT DESCRIPTION

BASIC USES

UV365™ Ultra Flashing primary uses are for window flashing, wall flashing, joint flashing, and non-vapor permeable sheet air barrier.

ACCESSORIES

- 650 LT Liquid Adhesive, a rubber-based, tacky adhesive which is specifically formulated to provide excellent adhesion.
- California Sealant is a rubber-based sealant which is specifically formulated to provide excellent adhesion.
- Shur-Tac Liquid Adhesive is a polymer emulsion based adhesive which is specifically formulated to provide excellent adhesion.
- Detail Sealant PW™ is a single-component, STPE, 100% solid, moisture-cured, elastomeric sealant. It is an environmentally-friendly, non-isocyanate product that replaces silicone and urethane sealants. It is a low VOC/HAPS free, cold-applied, self-adhesive, elastomeric sealant.
- Prefabricated End Dams and Corners are preformed and self-adhesive, and are used around windows, door openings, beam headers, lintels, and through wall flashings (TWF) forming a continuous water deterrent seal.

Note: When using UV365 Ultra Flashing in fluid-applied air barrier applications, please refer Polyguard's specified air barrier product data sheet or contact a Polyguard representative.

PRODUCT FEATURES

UV365™ Ultra Flashing offers many advantages over other flashing systems:

- **UV Resistant:** UV365 Ultra Flashing resists sunlight for up to 2 years.
- **Strong, yet flexible:** UV365 Ultra Flashing can be field cut and shaped to meet various job site conditions.
- **Fully adhered:** The rubberized-asphalt membrane adheres tenaciously to the surface and itself, eliminating membrane blow-off and tears before exterior wall finish installation.
- **Permanent:** Once installed and covered with cladding, the membrane will not rot or decay from mildew or mold.

Product Data Sheet

- **Self-sealing:** The rubberized-asphalt properties allow for self-sealing seams and misplaced fasteners that are left in place at temperatures above 40°F (5°C).
- **Packaging:** UV365 Ultra Flashing is packaged in 75-foot rolls and available in various widths from 6" to 18".
- **Slit Release Film (SRF):** UV365 Ultra Flashing comes with a slit release paper liner for ease of installation.

COMPOSITION & MATERIALS

UV365™ Ultra Flashing is a 40-mil, laminated, modified-asphalt, self-adhesive sheet membrane bonded to a cross-laminated polyethylene sheet with a top protective layer of aluminum.

TECHNICAL DATA

See physical properties table.

INSTALLATION

GENERAL

Read and carefully follow the instructions in this document.

OVERVIEW NOTES: UV365™ Ultra Flashing is designed for UV exposure up to 2 years.

UV365 Ultra Flashing requires support across gaps and openings greater than 1/8-inch. Modify any 90-degree intersections, i.e. between walls and ledges, to have a sloped transition from the vertical-to-horizontal plane.

On all overlaps, install at a minimum of a 2 1/2" side lap and 6" end lap.

Draining the flashing via dedicated weeps, closing discontinuous flashing ends with end dams, mechanically terminating and sealing the top edge of a flashing in cavity wall construction, and sealing the top edge of a flashing in non-cavity wall construction, are essential and integral parts of fully functioning flashing materials.

BEST PRACTICE INSTALLATION STEPS

1. Install UV365™ Ultra Flashing in ambient and substrate surface temperatures of 40°F (5°C) and rising. Conduct a field adhesion test at temperatures below 40°F (5°C) prior to application.
2. Prepare the surfaces to receive the flashing.
3. Apply a coating of 650 LT Liquid Adhesive, California Sealant, or Shur-Tac Liquid Adhesive. If a substrate has been coated with Airlok Flex®, Airlok Flex VP, Airlok Flex VP LT, Airlok Flex WG, or Airlok Flex WG LT and the coating is cured, priming with a liquid adhesive is not necessary.
4. Per construction documents, install Drip Edge.
5. Install UV365™ Ultra Flashing.
6. Apply pressure over the face of the installed membrane with a hard-surfaced rubber roller or similar blunt instrument.

7. Terminate the top edge of flashing with Detail Sealant PW. Termination Bar is recommended.

GUARANTEE

UV365 Ultra Flashing will meet published specifications at the time of delivery.

STORAGE

System components should be unloaded and stored in such a manner that prevents damage to the materials. All containers shall be protected from weather and can lids securely fastened.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at (214) 515-5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results

obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

P.O. Box 755, Ennis, TX 75120-0755

Sales: (615) 217-6061 • Tech Support: (214) 515-5000 • Fax: (615) 691-5500

Email: archtech@polyguard.com

Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
MEMBRANE THICKNESS	ASTM D 1000	40 Mils
TENSILE STRENGTH - MEMBRANE	ASTM D 412 Modified Die C	1018 PSI
TENSILE STRENGTH - FILM	ASTM D 882 Modified	7007 PSI
ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT	ASTM D 412 Modified Die C	167%
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96 Method B	0.17 Perms
PUNCTURE RESISTANCE -MEMBRANE	ASTM E 154	98.2 lbf
PUNCTURE RESISTANCE -FILM	ASTM E 154	94.9 lbf
LOW TEMPERATURE PLIABILITY	ASTM D 146 Modified	Pass
PEEL ADHESION TO PRIMED STEEL	ASTM D 1000	18.02 lbs/in. width
PEEL ADHESION	ASTM D 903	17.4 lbs/in. width
LAP PEEL ADHESION	ASTM D 1876	9.38 lbs/in. width

PACKAGING	PART NUMBER	UNIT SIZE
UV365™ ULTRA FLASHING (SRF) 6"	UV365 ULTRA-40006	6 - 6" x 75' rolls
UV365™ ULTRA FLASHING (SRF) 9"	UV365 ULTRA-40009	4 - 9" x 75' rolls
UV365™ ULTRA FLASHING (SRF) 12"	UV365 ULTRA-40012	3 - 12" x 75' rolls
UV365™ ULTRA FLASHING (SRF) 18"	UV365 ULTRA-40018	2 - 18" x 75' rolls
FLASHING Accessories		
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 5 GA	5-gallon pail
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 1 GA	4 - 1 gal pails/ctn
CALIFORNIA SEALANT	CALSEAL5	5-gallon pail
SHUR-TAC LIQUID ADHESIVE	SHUR-TAC5	5-gallon pail
SHUR-TAC LIQUID ADHESIVE	SHUR-TAC1	4 - 1 gal pails/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW - SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW - 3 GAL	3-gallon pail
PF END DAM (an accessory for TWF)	CORNERIN3X3X3	3" x 3" x 3"
PF INSIDE CORNER/PF END DAM (an accessory for TWF)	CORNERIN8X8X8	8" x 8" x 8"
PF OUTSIDE CORNER (an accessory for TWF)	CORNEROUT7X7X8	7" x 7" x 8"

SRF indicates Slit Release Film

P.O. Box 755
Ennis, TX 75120
PH: (214) 515-5000
FX: (972) 875-9425

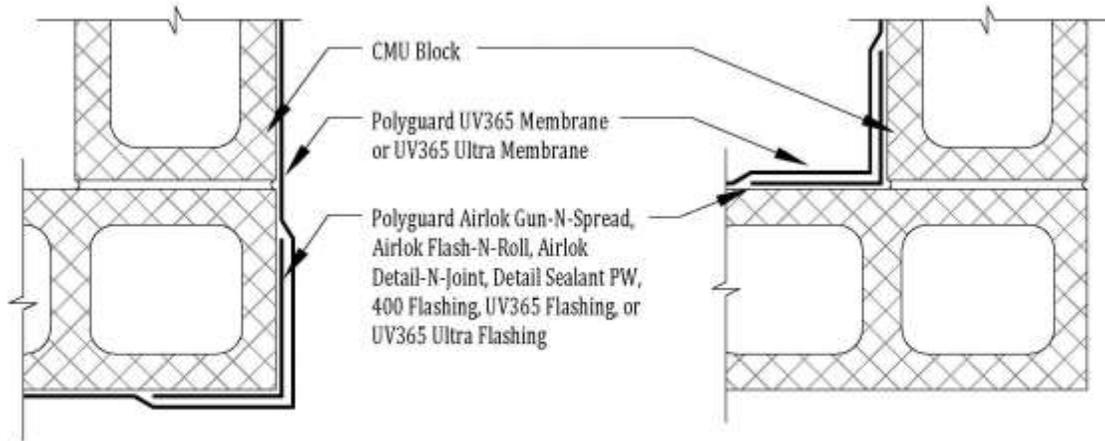
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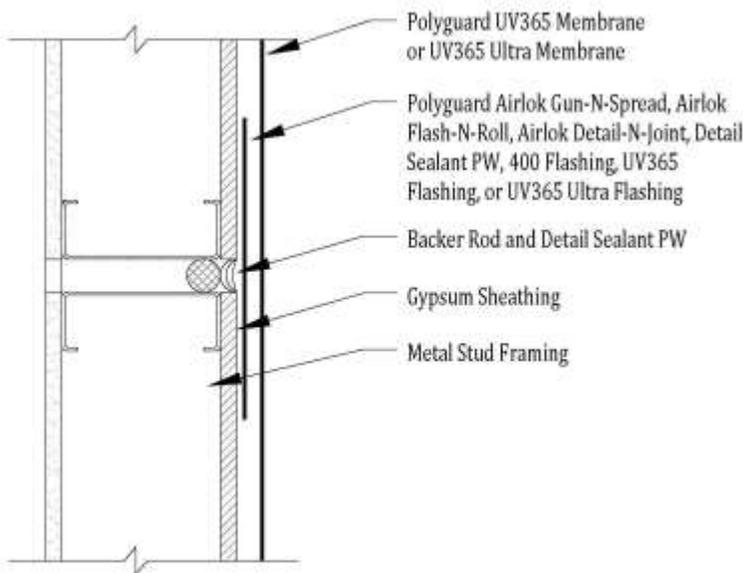


Common Polyguard® UV365™ Flashing and UV365™ Ultra Flashing Applications

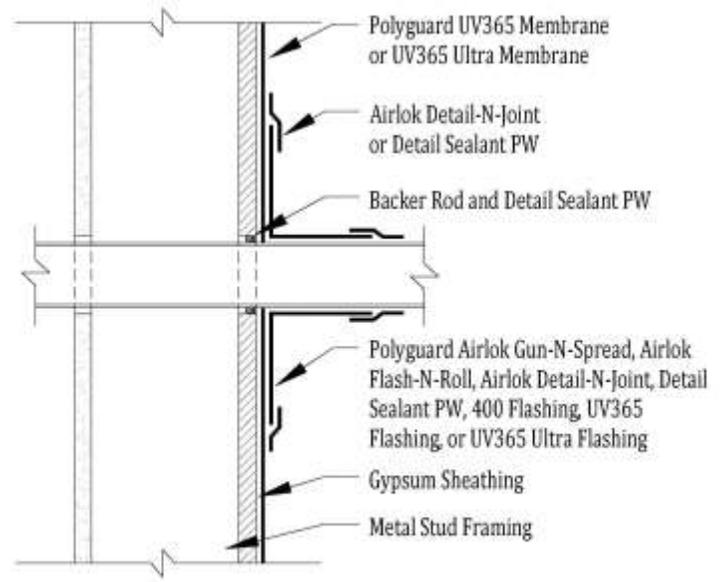
These diagrams are not intended to be application instructions, simply illustrations



Inside & Outside Corner Flashing



Control Joint Flashing



Penetration Flashing

Please Note: Not intended to be full details. For full application detail on these configurations, see Polyguard UV365 Flashing details, UV365 Ultra Flashing details, or contact Polyguard Products.

QUICK GRIP

Multi-Surface Building Envelope Adhesive

Product Data Sheet

PRODUCT NAME

STA'-PUT® Quick Grip

MANUFACTURER

ITW Polymers Sealants North America, Inc.
Irving, TX 75060
(972) 438-9111
www.itwsealants.com

PRODUCT DESCRIPTION

ITW STA'-PUT® Quick Grip is an industrial-grade aerosolized adhesive in a portable spray system. Quick Grip is formulated to adhere protection courses, drainage composites, insulation, air & vapor barrier membranes, waterproofing membranes, and thru-wall flashings to a variety of substrates. It contains no chlorinated solvents and offers an excellent alternative to methylene chloride-based products. Quick Grip provides a fast and economical solution to most building envelope component adhesive requirements.

PRODUCT FEATURES

- Aggressive grab tack
- Quick dry time
- No clean-up or maintenance
- Very long working time
- Can be used as a primer or an adhesive
- Excellent adhesion to many substrates

TECHNICAL DATA

See physical properties table.

APPROVED EQUIPMENT

Surface Preparation:

- Spray gun: SG200
- Spray Tip: ST9502
- Hoses: MH973 (12')

DIRECTIONS FOR USE:

- Use only after careful consideration of the warnings, directions, and first aid instructions given. Do not thin.
- Surfaces to be bonded should be clean, dry and free of any dust, loose paint, wax, moisture, dirt, grease, oil, rust, or other contaminants.
- Adhesive should be at 60°F (15.6°C) to 95°F (35°C). For best results, adhesive and materials to be bonded should be 60°F (15.6°C) to 95°F (35°C) during application.
- Before initial use securely attach gun to hose, then hose to canister. Fully open canister valve; do NOT close valve until empty.
- Spraying from 8 to 12 inches away, apply a uniform coat of adhesive to one surface, allowing to coat evenly across the substrate. Some porous surfaces may require two coats. Do not allow adhesive to "puddle". Be sure to

have sufficient coverage of the surfaces for the application. Use only approved equipment.

- Both surfaces must be allowed to dry before bonding. This will usually take from 1 to 3 minutes at 60°F (15.6°C) under normal conditions. Heat and humidity, or cold weather can cause longer drying times. Surfaces are dry if adhesive is tacky, but no adhesive transfers to the hand when touched.
- Complete the bond within 60 minutes (under normal conditions) after the adhesive is dry. If the two surfaces don't grab immediately when brought into contact, they have dried too long.
- Position coated surfaces carefully before putting them together since no shifting is possible once contact is made.
- Bring surfaces together and immediately apply firm pressure (30 psi) over entire surface working from the center to the edges.
- Do not use on some membranes and components. When in doubt, conduct compatibility testing on the product to be bonded before use.
- After initial assembly, leave the hose and gun attached to the canister with the valve open.
- After safely releasing line pressure, detach gun and hose only when transferring to a new canister.
- Reattach gun and hose immediately.

SAFETY

Empty container remains hazardous until all flammable vapors, which may explode upon ignition, are gone from residue and container. Observe all labeled hazard precautions. Do not cut, puncture, or weld while hazard exists.

Do not reuse empty container. Recycle, or dispose of, according to all federal, state, and local regulations. Follow solvent manufacture's recommendations

KEEP OUT OF REACH OF CHILDREN FOR PROFESSIONAL OR INDUSTRIAL USE ONLY USE ONLY WITH APPROVED EQUIPMENT

NOTICE TO PURCHASER

No warranties, express or implied, are made including merchant ability and/or fitness for a particular purpose. Except for personal injury resulting from use of the product as directed, ITW Polymers Sealants North America, Inc. shall not be liable in tort or contract for any loss or damage. Under no circumstances shall ITW Polymers Sealants North America, Inc., a Division of Illinois Tool Works Inc., or its affiliates ("ITW Polymers Sealants North America, Inc.") be liable for any loss or damage arising from the purchase, use, or inability to use this product, or for any special, indirect, incidental, or consequential damages. The user may send a sample of product to ITW Polymers Sealants North America, Inc. for

testing. If such testing proves a product defective, the user's sole and exclusive remedy is either reimbursement of the purchase price of the product or replacement of the container of product. No fabricator, installer, dealer, agent or employee of ITW Polymers Sealants North America, Inc. has the authority to modify the obligations or limitations of this.

WARRANTY

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state; therefore, some of the limitations stated above may not apply to you. It is your benefit to save your documentation upon purchase of a product. The information and suggestions for use contained herein are believed to be

accurate, but are not to be construed as warranties. User shall determine the suitability of the product for his or her intended use and shall assume all risk associated therewith.

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PROPERTY	TYPICAL VALUE
BASE	Synthetic Polymer
SOLVENT	Organic Solvent*
SHELF LIFE	1 year from Date of Manufacture**
COLOR	Clear
FLASH POINT	-156°F (-104°C)
WEIGHT / GALLON	5.86 lbs./ gallon
VOC CONTENT	471.3 g/L (EPA Method 24)
OPEN TIME	60 minutes
DRY TIME	2 - 5 minutes
FORMALDEHYDE	No urea formaldehyde added during adhesive manufacturing
* Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage	
** The shelf life for an unopened container of this adhesive stored at temperatures between 60°F (15.6°C) and 95°F (35°C) is 1 year from date of manufacture. Store out of direct sunlight in a cool, well-ventilated area. Avoid storing container directly on the floor or against an outside wall.	