

MATERIALS CHECKLIST

POLYGUARD[®] AIRLOK[®] FLEX

AIR BARRIER SYSTEM: ABOVE-GRADE FLUID-APPLIED MEMBRANE

Polyguard Airlok Flex[®]

Airlok Flex[®] is a fluid-applied air barrier coating and is used over CMU and gypsum sheathing. It is not recommended for use on wood substrates. It can be applied in temperatures between -20°F (-29°C) to 120°F (49°C), at an application thickness of 40 mils wet, and a coverage rate of 40 SF per gallon. It is available in VOC formulations for 525, 400, 200 and 100. It is UV resistant up to 6 months.

Check		Part Number	Unit Size	Units/pallet	Wt/unit
	Polyguard Airlok Flex[®]				
	<i>Proban[®] mold inhibitor can be added at the factory to Airlok Flex[®]</i>	ALFLEX GRAY 05	5-gallon pail	36 pails/pallet	48#/pail
		ALFLEX GRAY 55	55-gallon drum	4 dr/pallet	445#/dr
	Airlok Flex[®] 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[®].</i>				
	Quick Grip Spray Adhesive	QGADH30	30# canister covers approximately 1000 SF		

Weights listed are estimates.

AIRLOK FLEX[®]

Fluid-Applied Membrane Air/Moisture Barrier

PRODUCT NAME

Airlok Flex[®]

MANUFACTURER

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

PRODUCT DESCRIPTION

BASIC USES

Airlok Flex[®] is designed to prevent the infiltration and exfiltration of moisture and air. Typical application includes coating masonry walls, masonry cavity walls, poured walls, precast walls, plywood, oriented strand board (OSB), and exterior-grade gypsum sheathing surfaces which will be covered with an exterior facade.

PRODUCT FEATURES

- The air barrier can be left exposed to the sun (UV) with no effects to the warranty for six (6) months maximum.
- Single-component, factory controlled mixture ensures uniformity, quality, and reduces waste/labor.
- Mold will not find a food source in the Airlok Flex[®] air barrier membrane, which thereby contributes to the overall mold management within a wall system.
- When repair or stop point is established, wet product can later be applied to the dry product. Wet product can be applied to clean and cured product creating a continuous system without seams.
- Minimal set-up and close-down procedures for spray applications adds productive time for spraying, quick adjustments in job sequencing, and where jobsite movement is required.
- Polyguard uses trained installers for the brand of air barrier products, and some carry additional certification by the Air Barrier Association of America (ABAA).
- Install the Airlok Flex system in ambient temperatures from -20°F (-29°C) to 120°F (49°C), reducing project rescheduling due to weather conditions.

COMPOSITION & MATERIALS

Airlok Flex[®] is a patented, single-component, cold-applied, impermeable, elastomeric, thermoplastic, synthetic rubber coating; designed to prevent air and moisture penetration, while protecting walls (i.e. poured-in-place, concrete masonry, precast), plywood, oriented strand board (OSB), and exterior-grade gypsum sheathing surfaces.

TECHNICAL DATA

See physical properties table.

INSTALLATION

SURFACE PREPARATION

Note: When using Detail Sealant PW[™] as filler to be covered by Airlok Flex, 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.

Smooth and fill flush rough concrete, surface defects, surface protrusions, and voids greater than 1/2" in depth. Prepare substrates to be clean and dry; free of mortar smears and form release; and free of frost and ice.

Install Detail Sealant PW[™], 400 Flashing, UV365[™] Flashing or UV365[™] Ultra Flashing and allow a minimum of 1 hour for

Detail Sealant PW[™] to skin over before covering, adding

Product Data Sheet

Per regulations of all states, excluding California

additional time for lower ambient and surface temperatures. It is also permissible to install these accessory products after the Airlok Flex application has dried for a minimum 24 hours.

Poured Concrete Walls: Once bleed water is absent, allow for minimum 3-day cure time before coating, giving longer cure time with lower ambient temperatures or heavy moisture saturation. Snap form ties flush to both sides of the wall; fill tie depressions and voids flush with the face of the wall using Detail Sealant PW[™] or non-shrinking Portland cement grout installed per manufacturer's instructions. Allow fill materials to dry before covering. Fill Honeycombs with non-shrinking Portland cement grout, installed per manufacturer's instructions, and allow to thoroughly dry.

Concrete Masonry Walls: Test for adhesion over CMU units containing integral moisture repellent. Mortar joints need to be struck full and flush to the face of the CMU. Allow assembly to cure for a minimum 3 days before coating, giving longer cure time with lower ambient temperatures or heavy moisture saturation. Core fills, bond beams, and/or rain add significant moisture to the assembly, thereby requiring longer dry time. Masonry walls are to be unparged. Fill wall voids and gaps between dissimilar materials with 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.

Gypsum Sheathing: Cover joints less than 0.125-inch with Airlok Flex[®] without detailing with Detail Sealant PW. Refer to the DETAILING section for joints greater than 0.125-inch.

PRIMING

No primer is needed. For best results, apply Airlok Flex directly to sound masonry, poured concrete, precast walls, plywood, OSB, and exterior-grade gypsum sheathing surfaces.

MEMBRANE APPLICATION

Apply Airlok Flex in one coat or more; by means of a sprayer, roller, or brush; to achieve a continuous film at the desired coverage rate of 40 square feet per gallon (40 wet mils). For application with an airless sprayer, use 3700-to-4000 PSI stall pressure and a 0.037-inch or 0.039-inch reversible spray tip.

Allow 24 hours to dry. Airlok Flex dries to an average thickness of 20 mils, but coverage rates will vary inversely related to the substrate texture and porosity. Allow 24 hours for Airlok Flex and accessories to dry before continuing work on the surface.

DETAILING

Masonry Anchors and Penetrations:

Apply extra coating amount to form a seal around the anchor-to-wall interface.

Transition and Control Joints:

Method A: Cover joints up to 0.25-inch with the field coating of Airlok Flex[®]. Allow 24 hours to dry. Then fill the joints with 30 mils of Detail Sealant PW[™], tool to 0.5-inch on each side of joint, and allow a minimum of 1 hour to skin over, adding additional time for lower ambient and surface temperatures; or cover joints with a 6-inch wide strip of 400 Flashing, UV365[™] Flashing or UV365[™] Ultra Flashing centered over the joint.

Method B: Fill joints of up to 0.25-inch with 30 mils of Detail Sealant PW tooled to 0.5-inch on each side of the joint followed by a 6-inch wide strip of UV365[™] Flashing or UV365[™] Ultra Flashing on primed substrate and centered over the joint. Then cover the joint with the field coat of Airlok Flex[®] and allow 24 hours to dry.

Rough Openings:

Complete air barrier system with a transition membrane from wall substrate to jamb or flange.

Method A: Apply UV365™ Flashing or UV365™ Ultra Flashing before or after the Airlok Flex® application to cover a minimum of 3-inches of the wall and a minimum of 3-inches of the rough opening.

Method B: Apply 400 Flashing only as a final overlay to cover a minimum of 3-inches of the wall and a minimum of 3-inches of the rough opening.

Complete air barrier transition to flanged windows, doors, or louvers with 400 Flashing, UV365™ Flashing or UV365™ Ultra Flashing applied over the jamb and head flanges and onto the adjoining air barrier. 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.

Inspect the applications for continuity. Repair as needed with either Airlok Flex or Detail Sealant PW™ applied as an equal-or-greater thickness as the field.

MEMBRANE REPAIR

Clean and dry the damaged areas of Airlok Flex® before recoating. Airlok Flex can be applied to damaged UV365™ Flashing or UV365™ Ultra Flashing. Airlok Flex will bond to itself without any additional surface preparation. Do not apply Airlok Flex over damaged areas of 400 Flashing.

PROTECTION

Airlok Flex® is designed for UV exposures for up to 6 months. For periods of (UV) exposure greater than 6 months, cover with Airlok Flex VP, Airlok Flex VP LT, Airlok Flex WG, or Airlok Flex WG LT prior to the end of the 6-month term; or remove and recoat uncovered/exposed Airlok Flex after the 6-month term.

STORAGE

Store Airlok Flex® as follows;

- 1) Protect containers from water, sparks, flames, excessive heat, and poor ventilation.
- 2) Keep out of direct sunlight and in ambient temperature range between -10°F (23°C) and 100°F (38°C). For best application results, store in ambient temperatures above 50°F (11°C).
- 3) On a stable surface with lid securely closed.
- 4) 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
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Email: archtech@polyguard.com
Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray
AIR LEAKAGE & DURABILITY	ASTM E 2357	0.0008 cfm/ft ²
AIR PERMEANCE – GYPSUM SHEATHING	ASTM E 2178	0.0017 cfm/ft ²
AIR PERMEANCE –BLOCK	ASTM E 2178	0.00012 cfm/ft ²
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96	0.058 Perms
ADHESION	ASTM D 4541	135+ PSI Average
RESISTANCE TO HYDROSTATIC HEAD	ASTM D 5385	231 ft.
TENSILE STRENGTH	ASTM D 412 Modified Die C	387 PSI
ELONGATION	ASTM D 412 Modified Die C	515%
NAIL SEALABILITY	ASTM D 1970	Pass
CRACK BRIDGING	ICC ES-AC 212	Pass
ANTIFUNGAL ACTIVITY MILDEW AND ROT RESISTANCE (Proban®)	AATCC METHOD 30	No visible growth on any film
SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS	ASTM E 84-94; NFPA 255; ANSI 2.5; UL 723 Omega 1995	10 - Flame Spread Index 35 - Smoke Development
EVALUATION OF FIRE PROPAGATION CHARACTERISTICS	NFPA 285	Pass
CATEGORY 1 40 C.F.R.§59.401 "WATERPROOF SEALER TREATMENTS"		525 G/L VOC Also available in other VOC options
PACKAGING	PART NUMBER	UNIT SIZE
AIRLOK FLEX® <i>Proban® mold inhibitor can be added at the factory to Airlok Flex®</i>	ALFLEX GRAY 05	5-gallon pail
	ALFLEX GRAY 55	55-gallon drum
Airlok Flex® Accessories:		
DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW – 3 GAL	3-gallon pail
400 FLASHING - 40 mil (6", 9", 12", 18" & TWF)	varies/size	75' roll
UV365™ FLASHING - 40 mil (6", 9", 12", 18" *Window Flashing Only; no TWF)	varies/size	75' roll
UV365™ ULTRA FLASHING - 40 mil (6", 9", 12", 18" *Window Flashing Only; no TWF)	varies/size	75' roll
QUICK GRIP SPRAY ADHESIVE	QGADH30	30# canister

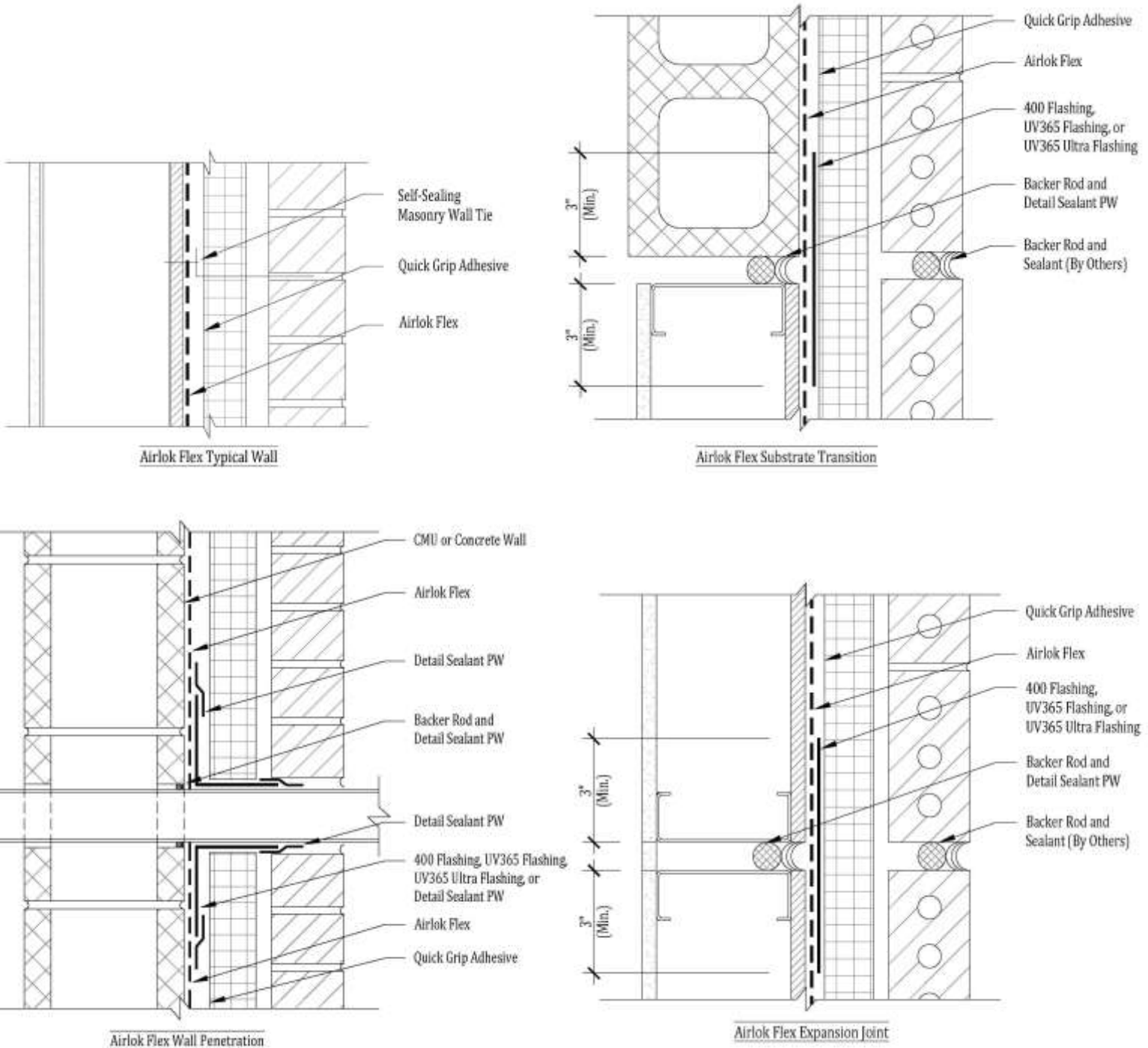
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Common Polyguard® Airlok Flex Membrane Applications

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



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

SECTION 07 27 26

VAPOR IMPERMEABLE FLUID-APPLIED AIR BARRIER MEMBRANE

This guide specification has been prepared by Polyguard Products Inc., in printed and electronic media, as an aid to specifiers in preparing written construction documents for vapor impermeable, fluid-applied air barrier membranes.

Polyguard® Airlok Flex® is a patented, single-component, cold-applied, impermeable, elastomeric, thermoplastic, synthetic rubber coating, waterproofing concrete sealer; designed to prevent air and moisture penetration while protecting concrete, concrete masonry, and gypsum sheathing surfaces. Polyguard® Airlok Flex® is a solvent-based product that can be ordered with a VOC content to meet local requirements: 525, 400, 200, or 100 g/l.

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. 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 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 impermeable 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 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
- B. ASTM D 1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection – Section 7.9 Nail Sealability
- C. ASTM D 4541 - Standard Test Method for Pull-off Strength of Coatings Using Portable Adhesion Testers
- D. ASTM D 5385-93 (06) - Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes.
- E. ASTM E 84 (94) - Standard Test Method for Surface Burning Features of Building Materials.
- F. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.
- G. ASTM E 2178 (01) - Standard Test Method for Air Permeance of Building Materials.
- H. ASTM E 2357 (05) - Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- I. ICC ES-AC 212 - Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers on Exterior Sheathing
- J. 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, 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 air barrier 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 doorframe 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. If necessary, ensure that subsoil is approved by architect or geotechnical firm.
- B. Warn personnel against breathing of vapors and contact with skin and eyes; wear appropriate protective clothing and respiratory equipment.
- C. Keep flammable products away from spark or flame. Post "No Smoking" signs. Do not allow use of spark-producing equipment during application and until all vapors have dissipated.

- D. 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® Airlok Flex® [*option: with or without ProBan® mold inhibitor*] VOC level required; [525], [400], [200], [100] air/vapor barrier: single-component; elastomeric; thermoplastic, synthetic rubber; liquid; spray, rolled, or brushed; cold-applied to concrete walls (i.e. poured-in-place, concrete masonry, precast), plywood, oriented strand board (OSB), or exterior-grade gypsum sheathing substrates.
1. Performance-based Specification: Polyguard® Airlok Flex® is a patented, single-component, cold-applied, impermeable, elastomeric, thermoplastic, synthetic rubber coating, waterproofing concrete masonry sealer having the following characteristics:

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray
AIR LEAKAGE & DURABILITY	ASTM E 2357	0.0008 cfm/ft ²
AIR PERMEANCE – GYPSUM SHEATHING	ASTM E 2178	0.0017 cfm/ft ²
AIR PERMEANCE –BLOCK	ASTM E 2178	0.00012 cfm/ft ²
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96	0.058 Perms
ADHESION	ASTM D 4541	135+ PSI Average
RESISTANCE TO HYDROSTATIC HEAD	ASTM D 5385	231 ft.
TENSILE STRENGTH	ASTM D 412 Modified Die C	387 PSI
ELONGATION	ASTM D 412 Modified Die C	515%
NAIL SEALABILITY	ASTM D 1970	Pass
CRACK BRIDGING	ICC ES-AC 212	Pass
ANTIFUNGAL ACTIVITY MILDEW AND ROT RESISTANCE (Proban®)	AATCC METHOD 30	No visible growth on any film
SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS	ASTM E 84-94; NFPA 255; ANSI 2.5; UL 723 Omega 1995	10 -Flame Spread Index 35 – Smoke Development
EVALUATION OF FIRE PROPAGATION CHARACTERISTICS	NFPA 285	Pass
CATEGORY 1 40 C.F.R.§59.401 "WATERPROOF SEALER TREATMENTS"		Available in 525, 400, 200, or 100 G/L VOC

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. Surface Primer Roller-grade Adhesive:
 - 1. Polyguard® 650 LT Liquid Adhesive: A rubber-based, tacky adhesive which is specifically formulated to provide excellent adhesion.
 - 2. Polyguard® California Sealant: A rubber-based sealant which is specifically formulated to provide excellent adhesion. The VOC (Volatile Organic Compound) content meets the South Coast Air Quality Management District regulations established under the February 1, 1991 version of Rule 1168 ©) (2) Adhesion and Sealant Applications. California Sealant is classified as an Architectural Sealant Primer Porous, with VOC of 527 g/L. Current SCAQMD regulations for this type sealant primer are 775 g/L.
 - 3. Polyguard® Shur-Tac Liquid Adhesive: A polymer emulsion based adhesive which is specifically formulated to provide excellent adhesion.

PART 3 EXECUTION

3.01 EXAMINATION

- A. All surfaces to be treated must be sound, dry, clean; and free of dirt, excess mortar smears, form release agents, or other contaminants. Masonry substrate to 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. Substrate surfaces must be clean and dry: free of mortar or gypsum smears and form release agents; and free of ice and frost.
- B. Poured concrete ties inside and out must be knocked-off and filled flush.
- C. Masonry wall must be unparged.
- D. Gypsum sheathing voids are to be filled and made flush with substrate.
- E. Open joints are to be filled with foam or Polyguard® Detail Sealant PW™. Tight joints can be coated with Airluk Flex without additional preparation.

- F. Smooth and fill flush rough concrete, surface defects, surface protrusions and voids greater than 1/2" in depth.
- G. For any detail work:
 - a. Install Detail Sealant PW™ or non-shrinking Portland cement grout, per manufacturer's instructions, prior to Airlok Flex application. Allow to dry.
 - b. Install Detail Sealant PW™ either before or after treatment, and allow a minimum of 1 hour to skin over before applying the Airlok Flex coating, 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. Install UV365™ Flashing or UV365™ Ultra Flashing either before Airlok Flex application or after the Airlok Flex application has been allowed to dry for minimum 24 hours. For installation before Airlok Flex application, apply Polyguard® 650 LT Liquid Adhesive primer, California Sealant primer, or Shur-Tac Liquid Adhesive primer at a rate of 250-300 sq. ft. per gallon; apply by roller or sprayer to a cleaned, dust free surface. Allow to become tacky per manufacturer's directions. 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.
 - d. Install 400 Flashing either before or after the Airlok Flex application has been allowed to dry for minimum 24 hours. For installation before Airlok Flex application, apply Polyguard® 650 LT Liquid Adhesive primer, California Sealant primer, or Shur-Tac Liquid Adhesive primer at a rate of 250-300 sq. ft. per gallon; apply by roller or sprayer to a cleaned, dust free surface. Allow to become tacky per manufacturer's directions. For ambient and substrate surface temperatures between 25°F (-4°C) and 40°F (4°C), refer to Polyguard's Technical Bulletin on Cold Weather Applications for the flashing installation.

3.03 APPLICATION OF AIR BARRIER SYSTEM

- A. Install all materials following manufacturer's guide specifications.
- B. Apply Polyguard® Airlok Flex® evenly to substrate in one coat using airless spray equipment with a 3700-to-4000 PSI stall pressure and reversible spray tip 0.037-inch or 0.039-inch, brush, or roller; checking immediately with a wet mil gauge for proper application thickness at 40 square feet per gallon (40 wet mils) on prepared substrates.
- C. Apply extra material at anchor ties and penetrations.
- D. Allow fluid-applied Airlok Flex application to dry for minimum 24 hours and then inspect for continuous coverage. If necessary, apply additional material as needed to provide a continuous coating then allow an additional minimum 24 hours to dry.
- E. Airlok Flex dries to an average thickness of 20 mils, but coverage rates will vary inversely related to substrate texture and porosity.
- F. Polyguard® UV365™ Flashing or UV365™ Ultra Flashing can be applied either before the Airlok Flex membrane has been applied to substrate or after the Airlok Flex membrane has been applied to the substrate and allowed to dry for a minimum 24 hours. Apply Polyguard® 400 Flashing membrane only after the fluid-applied application of Polyguard® Airlok Flex® to substrate and allowed to dry a minimum 24 hours. Fill control and transition joints with 30 mils of Polyguard® Detail Sealant PW™ either before or after the Airlok Flex membrane; tool to 0.5-inch on each side of the joint. Apply Polyguard® 400 Flashing or UV365™ Flashing or UV365™ Ultra Flashing to window and door openings as specified. Cover a minimum 3" onto the wall face and into rough opening. Overlap end and side laps two (2) inches. Roll all flashing to ensure seal. Seal top edge of flashing strips with Polyguard® Detail Sealant PW™. Trowel to feathered edge.

- G. Minor voids are to be filled and sealed with Polyguard® Detail Sealant PW™. Application of Detail Sealant PW can be executed either before or after the application of Airlok Flex. Allow Detail Sealant PW a minimum 1 hour to skin over before covering with the Airlok Flex, adding additional time for lower ambient and surface temperatures. Cure time is less than an hour at 75°F (24°C) and 50% RH.

3.04 MEMBRANE REPAIR

- A. Thoroughly clean and dry the damaged area of Airlok Flex, then recoat. Airlok Flex will bond to itself without any additional surface preparation. Do not apply Airlok Flex over damaged areas of 400 Flashing, but it is permissible as a repair material to be applied over damaged areas of UV365™ Flashing or UV365™ Ultra Flashing.

3.05 PROTECTION

- A. For 24 hours after installation, protect completed membrane system against water filling block cores. Protect finished air barrier system from adjacent work.
- B. Airlok Flex will be adversely affected by prolonged or constant ultraviolet radiation (UV) exposure longer than 6 months. For periods of (UV) exposure greater than 6 months, cover with Airlok Flex VP, Airlok Flex VP LT, Airlok Flex WG, or Airlok Flex WG LT prior to the 6 month term; remove and recoat the exposed Airlok Flex after the 6 month term.

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 FLEXIBILITY	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
 Ennis, TX 75120
 PH: (214) 515-5000
 FX: (972) 875-9425

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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

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 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

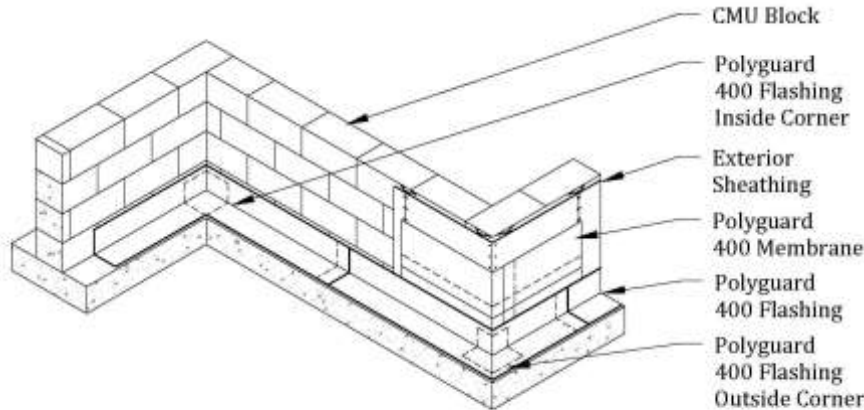
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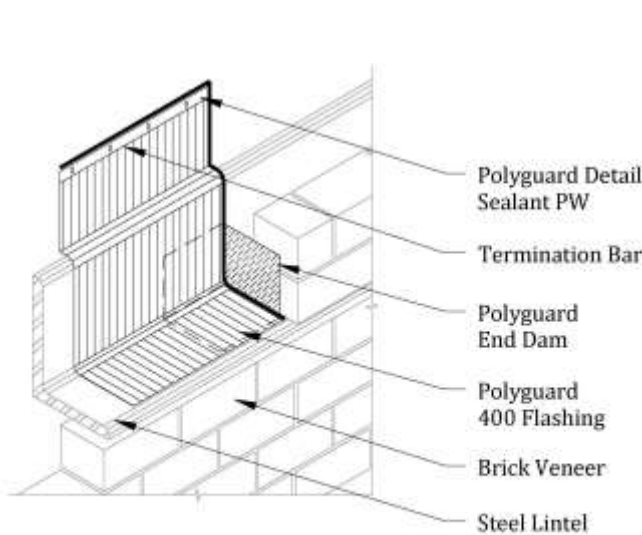


Common Polyguard® 400 Flashing Applications

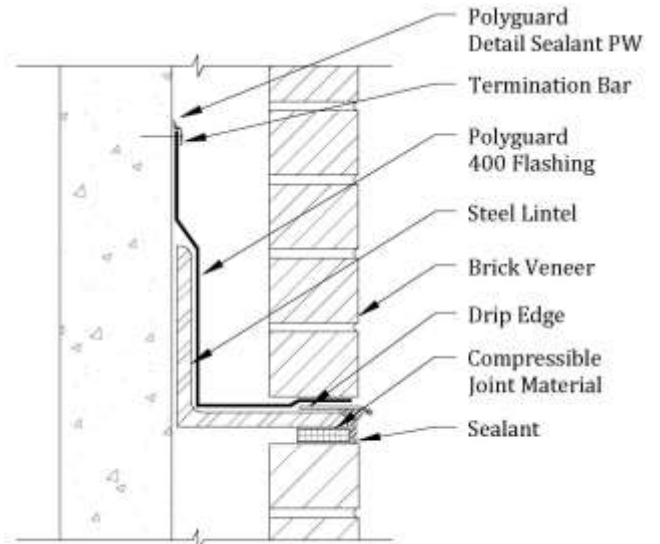
These diagrams are not intended to be application instructions, simply illustrations



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 Data Sheet

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.

- **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.

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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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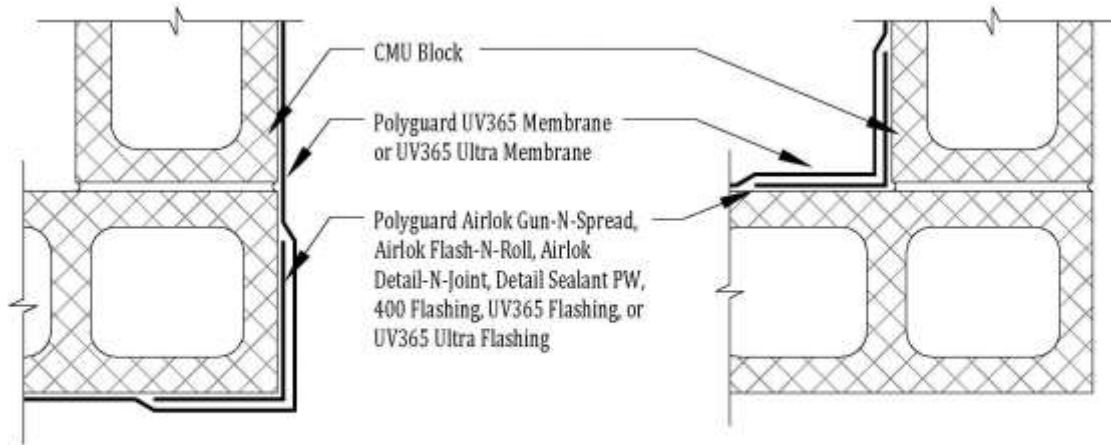
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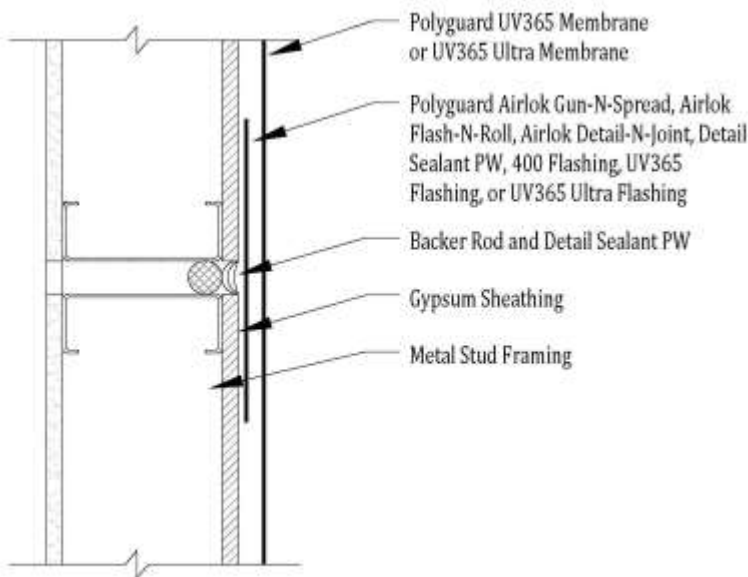


Common Polyguard® UV365™ Flashing and UV365™ Ultra Flashing Applications

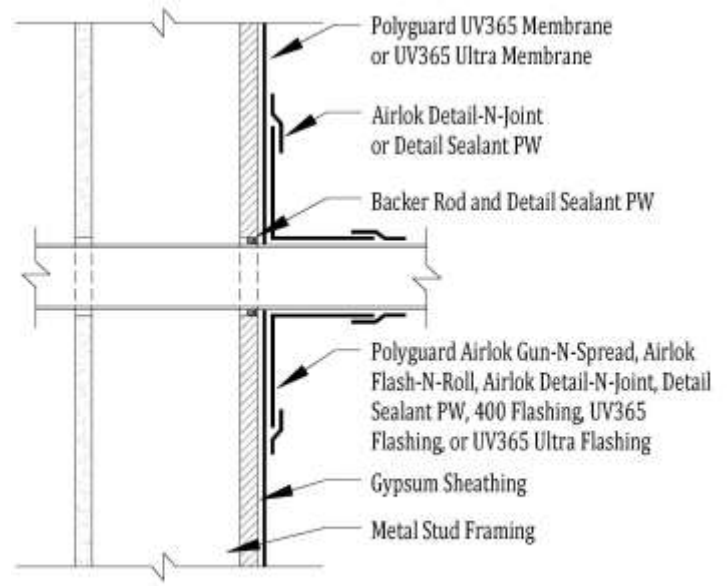
These diagrams are not intended to be application instructions, simply illustrations



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

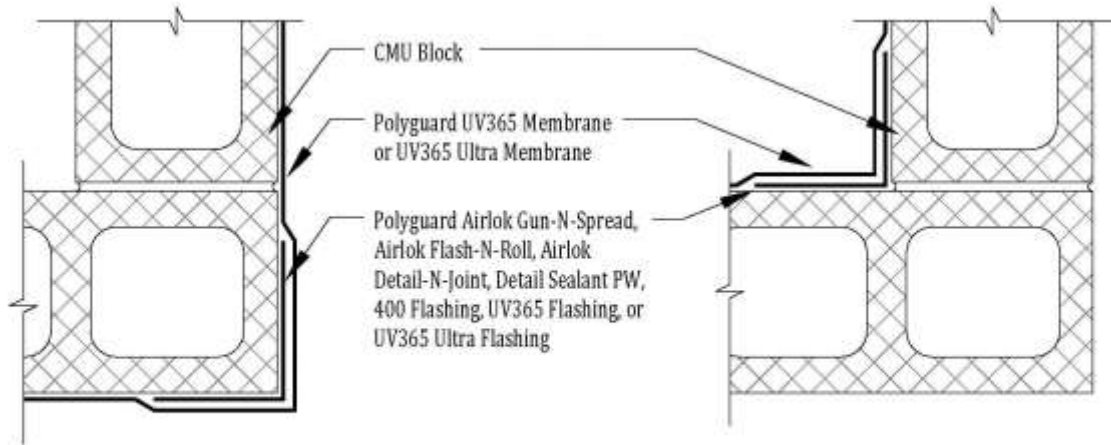
PROPERTY	TEST METHOD	TYPICAL VALUE
MEMBRANE THICKNESS	ASTM D 1000	40 Mils
TENSILE STRENGTH - MEMBRANE	ASTM D 412 Modified Die C	1018 PSI
TENSILE STRENGTH - FILM	ASTM D 882 Modified	7007 PSI
ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT	ASTM D 412 Modified Die C	167%
PERMEANCE TO WATER VAPOR TRANSMISSION	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"

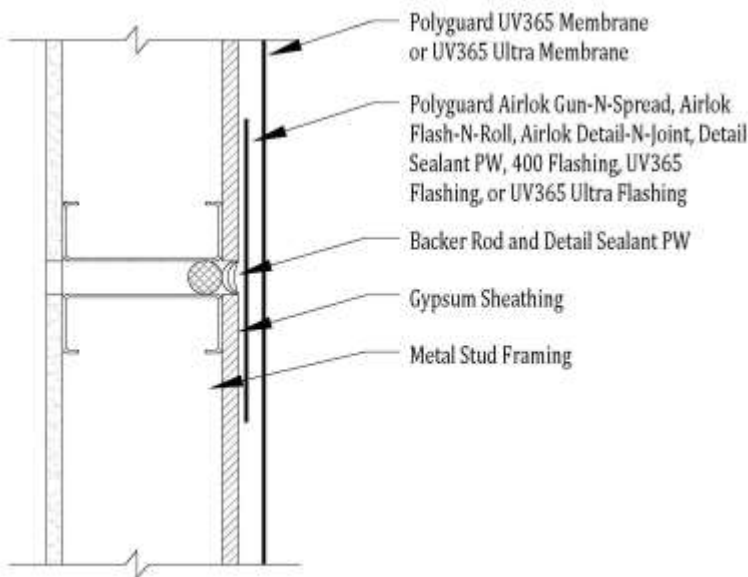
SRF indicates Slit Release Film

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

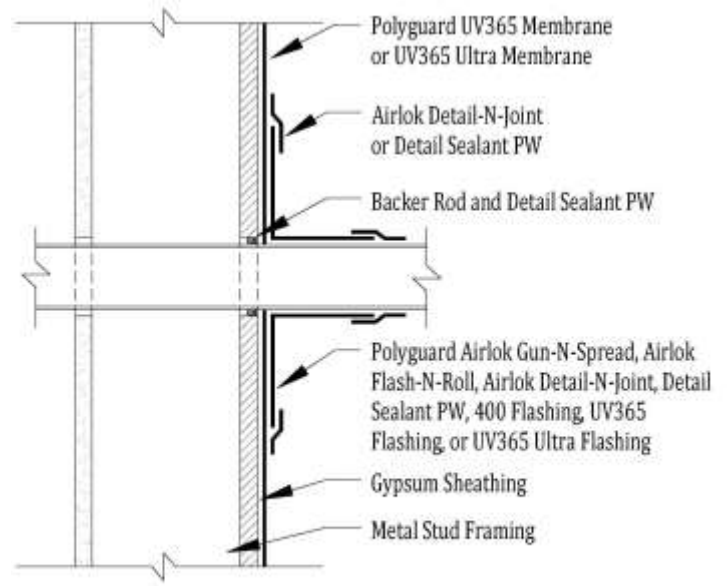
These diagrams are not intended to be application instructions, simply illustrations



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 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

Product Data Sheet

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.

TECHNICAL SERVICES

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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	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.	