

AIRLOK FLEX®

Fluid-Applied Membrane Air/Moisture Barrier

PRODUCT NAME

Airlok Flex®

MANUFACTURER

Polyguard Products, Inc.

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www.polyguardproducts.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 & mastic membrane; 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.

Airlok Flex is a solvent-based product that can be ordered with VOC contents of 525, 400, 200, or 100 to meet local requirements.

Product Data Sheet

Per regulations of all states, excluding California

TECHNICAL DATA

See physical properties table.

INSTALLATION

SURFACE PREPARATION

- 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.
- For any detail work prior to Airlok Flex application:
 1. Install Portland cement grout prior to Airlok Flex application and allow to cure.
 2. Install Airlok Flex over Detail Sealant PW™ that has cured for a minimum of 1 hour. Install Detail Sealant PW over cured Airlok Flex.
 3. Install Aluma Flash after the Airlok Flex application has dried for a minimum 24 hours, or install Airlok Flex over Aluma Flash after the Aluma Flash has set for a minimum of 1 hour.
 4. Install 400 Flashing only after the Airlok Flex application has dried for 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 voids flush with Detail Sealant PW™ or non-shrinking Portland cement grout. Allow fill materials to dry before covering. Fill Honeycombs with non-shrinking Portland cement grout 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. Allow Detail Sealant PW minimum 1 hour to dry.

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

- Airlok Flex can be applied in one coat or more.
- Use an airless sprayer with 3700 to 4000 PSI stall pressure.
- Spray, roll, or brush the coating to achieve a continuous film at the desired coverage rate of 40 square feet per gallon (40 wet mils). Allow 24 hours to dry.
- Airlok Flex dries to an average thickness of 20 mils.
- Coverage rates will vary inversely related to substrate texture and porosity.
- Allow 24 hours for fluid-applied membrane 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 minimum 1 hour to dry; or cover joints with a 6-inch wide strip of Aluma Flash or 400 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 Aluma Flash 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 Aluma Flash 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 Aluma Flash or 400 Flashing applied over the jamb and head flanges and onto the adjoining air barrier.

Inspect the applications for continuity. Repair as needed with either Airlok Flex or Detail Sealant PW™ applied to the same or thicker thickness as the field.

MEMBRANE REPAIR

Clean and dry the damaged areas of Airlok Flex before recoating. Airlok Flex can be applied to damaged Aluma

Flash. 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 or Airlok Flex WG prior to the end of the 6 month term; remove and recoat uncovered/exposed Airlok Flex after the 6 month term.

STORAGE

Protect containers and packages from water, sparks, flames, excessive heat, poor ventilation and to meet requirements of local governing authorities.

Store Airlok Flex out of direct sunlight and in ambient temperatures between -10°F (-23.3°C) and 100°F (37.7°C). For best application results, store Airlok Flex in ambient temperatures above 40°F (4.4°C).

SAFETY

MSDS sheets for all Polyguard products can be obtained at our website www.polyguardproducts.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.
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Website: www.polyguardproducts.com

PHYSICAL PROPERTIES TABLE		
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	100+ PSI Average
RESISTANCE TO HYDROSTATIC HEAD	ASTM D 5385	231 ft.
RESISTANCE TO DEGRADATION	ASTM E 154	Excellent
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

PACKAGING	PART NUMBER	UNIT SIZE
AIRLOK FLEX® <i>Proban® mold inhibitor can be added at the factory to Airlok Flex®</i>	PWALFLEX GRAY 05	5 gallon pail
	PWALFLEX GRAY 55	55 gallon drum
Airlok Flex® Accessories:		
Detail Sealant PW™ 20 oz. sausage	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn
Detail Sealant PW™ 3 gal. pail	DETAIL SEALANT PW – 3 GAL	3 gallon pail
Aluma Flash – 40 mil (sizes available: 4”, 6”, 9”, 12”, 18”, 36”)	varies/size	33’3 roll
400 Flashing - 40 mil (sizes available: 4”, 6”, 9”, 12”, 16”, 24”)	varies/size	75’ roll
400 Membrane - 40 mil (48”)	varies/size	48” x 75’ roll
Quick Grip Spray Adhesive	PWQGADH30	30# canister

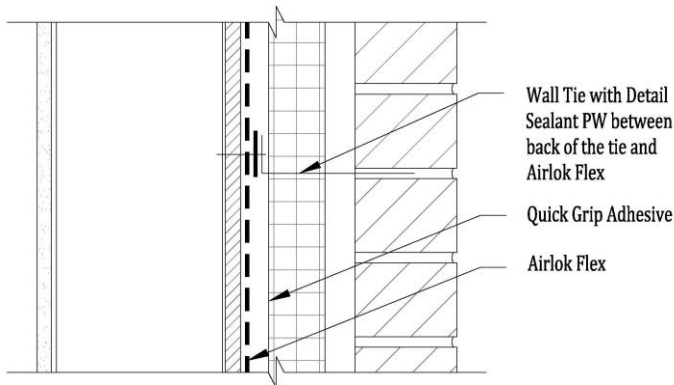
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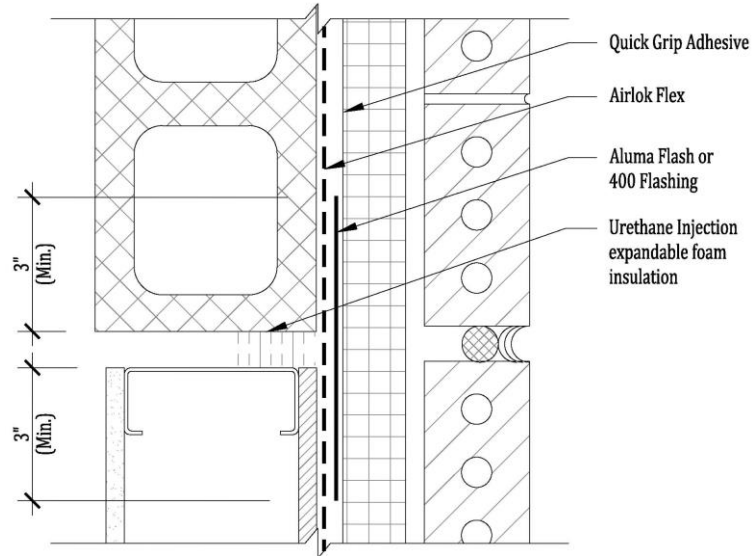


Common Polyguard[®] Airllok Flex Membrane Applications

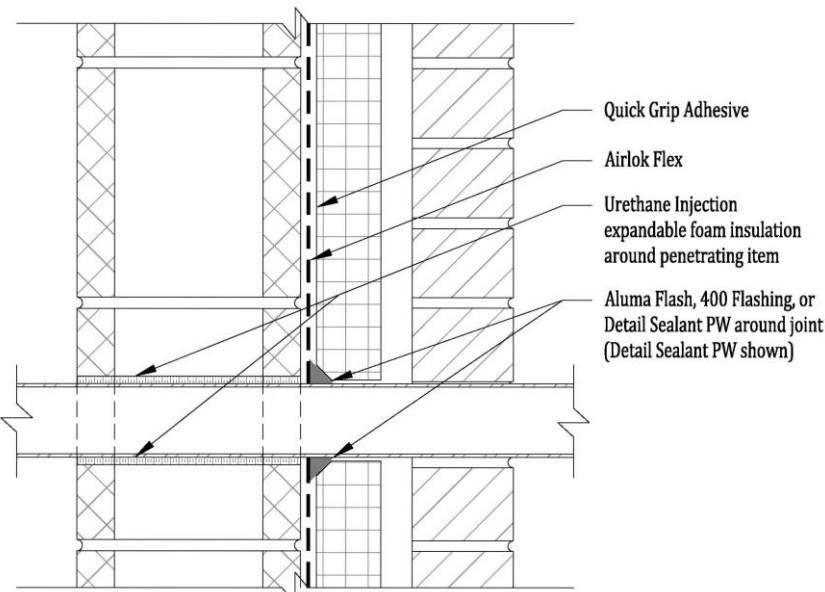
These diagrams are not intended to be application instructions, simply illustrations



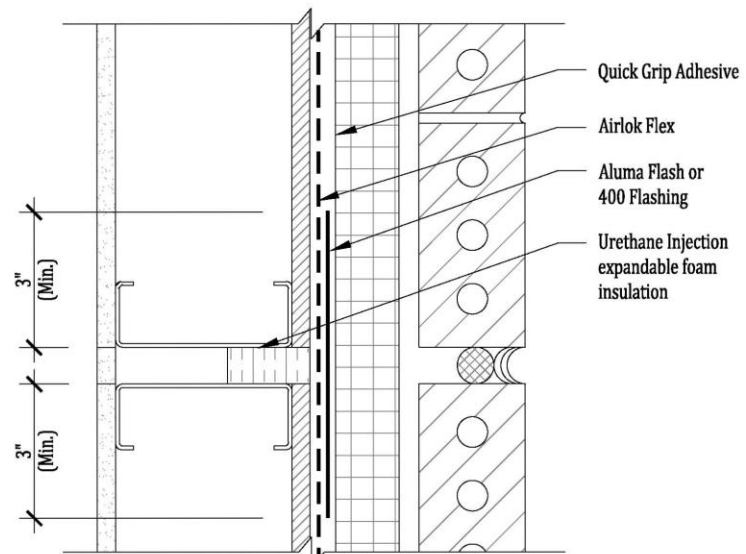
Airllok Flex Typical Wall



Airllok Flex Substrate Transition



Airllok Flex Wall Penetration



Airllok Flex Expansion Joint

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