

## AIRLOK FLEX®

Fluid-Applied Membrane Air/Moisture Barrier

### PRODUCT NAME

Airlok Flex®

### MANUFACTURER    DISTRIBUTOR

Polyguard Products, Inc. Bowman Construction Supply  
Ennis, TX 75119 Denver, CO 80239  
(214) 515-5000 (303)696-8960  
[www.polyguard.com](http://www.polyguard.com) [www.bowmanconstructionsupply.com](http://www.bowmanconstructionsupply.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](http://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](mailto:archtech@polyguard.com)

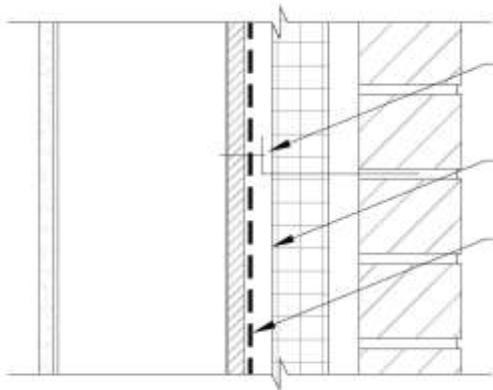
Website: [www.polyguard.com](http://www.polyguard.com)

PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray
AIR LEAKAGE & DURABILITY	ASTM E 2357	0.0008 cfm/ft <sup>2</sup>
AIR PERMEANCE – GYPSUM SHEATHING	ASTM E 2178	0.0017 cfm/ft <sup>2</sup>
AIR PERMEANCE – BLOCK	ASTM E 2178	0.00012 cfm/ft <sup>2</sup>
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

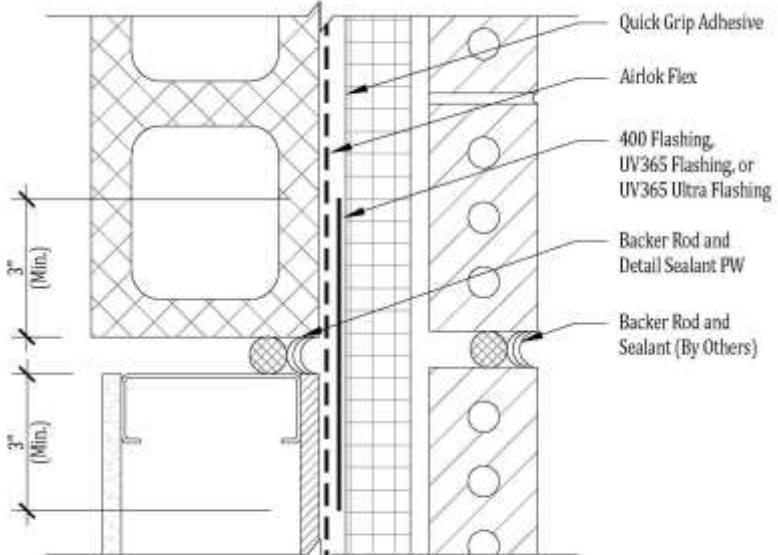
PACKAGING	PART NUMBER	UNIT SIZE
AIRLOK FLEX® <i>Proban® mold inhibitor can be added at the factory to Airlok Flex®</i>	ALFLEX GRAY 05	5-gallon pail
	ALFLEX GRAY 55	55-gallon drum
<b>Airlok Flex® Accessories:</b>		
DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL 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

## Common Polyguard® Airlok Flex Membrane Applications

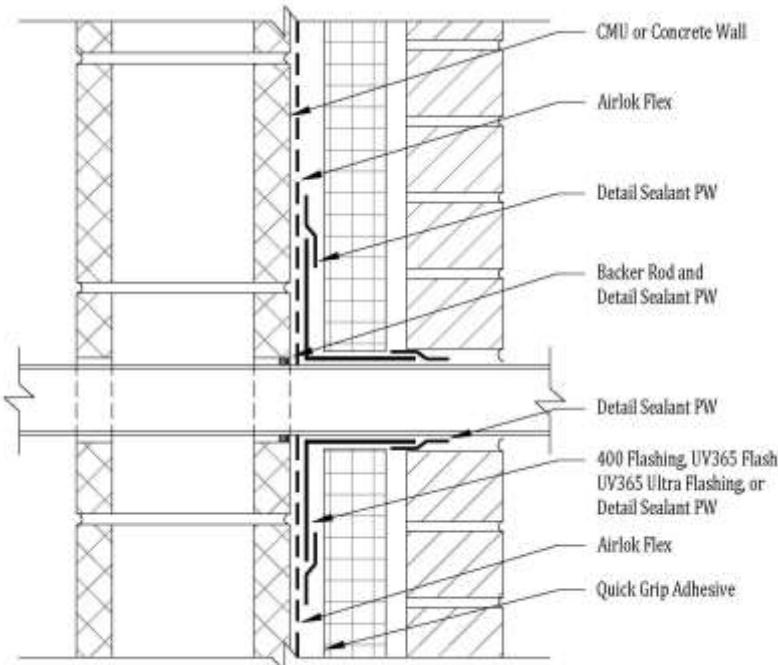
These diagrams are not intended to be application instructions, simply illustrations



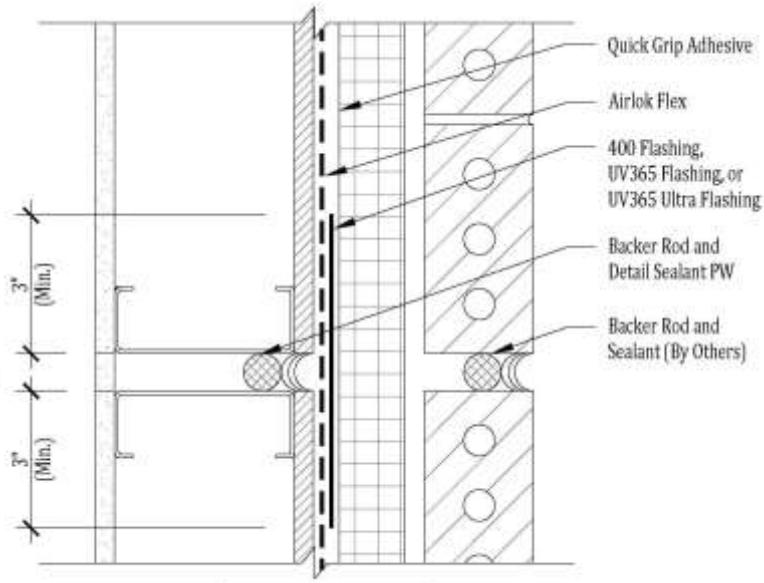
Airlok Flex Typical Wall



Airlok Flex Substrate Transition



Airlok Flex Wall Penetration



Airlok Flex Expansion Joint

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