

AIRLOK FLEX® WG

Fluid-Applied Air/Moisture Barrier System

PRODUCT NAME

Airlok Flex® WG

MANUFACTURER

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

DISTRIBUTOR

Bowman Construction Supply
Denver, CO 80239
(303)696-8960
www.bowmanconstructionsupply.com

PRODUCT DESCRIPTION

BASIC USES

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

PRODUCT FEATURES

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

COMPOSITION & MATERIALS

Airlok Flex® WG contains a non-combustible, water-based blend of high-performance, elastomeric acrylic polymers and selected fillers with a VOC content of 79.1 g/l.

TECHNICAL DATA

See physical properties table.

INSTALLATION

SURFACE PREPARATION

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

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

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

Concrete Masonry Walls: Test for adhesion over CMU units containing integral moisture repellent. Tool and then brush mortar joints to establish a surface profile for adhesion. Fill mortar voids or damaged faces with mortar, non-shrinking Portland cement installed per manufacturer's instructions, or Detail Sealant PW™. Allow Detail Sealant PW a minimum of 1 hour to skin over before covering, adding additional time

Product Data Sheet

for lower ambient and surface temperatures. Also allow the mortar and/or cement to dry to the touch before coating. Apply Airlok Flex WG to clean, dry and sound concrete.

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

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

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

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

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

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

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

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

Poured Concrete, CMU and Sheathed Walls:

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

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

PRIMING

No substrate priming is necessary.

MEMBRANE APPLICATION

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

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

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

Apply at a rate of 80 to 100 ft² per gallon (16 to 20 mils wet). Coverage will be inversely related to texture and porosity of

the substrate. DensGlass® Gold exterior gypsum sheathing was used to determine the coverage standard. Applications can be made by brush, roller, or airless sprayer, having a minimum pressure of 2500 PSI. Best spray results occur using a 0.027-inch reversible tip.

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

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

Rough Openings:

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

Cover rough opening surfaces with Airlok Flex® WG.

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

INSPECTION

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

REPAIR

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

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

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

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

STORAGE

Store Airlok Flex® WG as follows;

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

SAFETY

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

WARRANTY

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

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc. P.O. Box 755, Ennis, TX 75120-0755

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

Email: archtech@polyguard.com

Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray
AIR PERMEANCE	ASTM E 2178-01	0.0018 cfm/ft ²
AIR LEAKAGE & DURABILITY	ASTM E 2357-11	0.00001 cfm/ft ²
WATER VAPOR PERMEANCE	ASTM E 96 Method B	21 perms
CRACK BRIDGING	ICC AC 212	Pass
ULTRAVIOLET (UV) EXPOSURE LIMIT	By Manufacturer	Up to 2 years
PULL ADHESION - CONCRETE	ASTM D 4541	174 PSI
PULL ADHESION - GYPSUM SHEATHING	ASTM D 4541	123 PSI
TENSILE STRENGTH	ASTM D 412 Modified	168 PSI
ELONGATION	ASTM D 412 Modified	528%
NAIL SEALABILITY	ASTM D 1970	Pass
WATER RESISTANCE	AATCC 127-08 Modified	Pass
EVALUATION OF FIRE PROPOGATION CHARACTERISTICS	NFPA 285	Pass
VOLATILE ORGANIC COMPOUNDS (VOC)		79.1 g/l

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

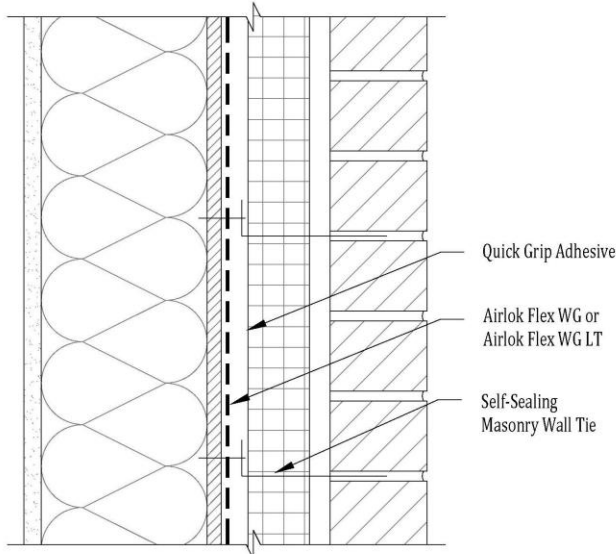
P.O. Box 755
Ennis, TX 75120
PH: (214) 515-5000
FX: (972) 875-9425

The information contained in this document is based on data and knowledge considered to be true and accurate at time of printing and is offered for the users' consideration, investigation and verification. Polyguard Products, Inc. cannot be held liable for errors made as a result of information herein. Changes and modifications can be made to this document without prior notice. No statement, recommendation or suggestion is intended for use which would infringe on patents or copyrights held by Polyguard Products, Inc. Airlok Flex® and Proban® are Registered Trademarks of Polyguard Products, Inc.

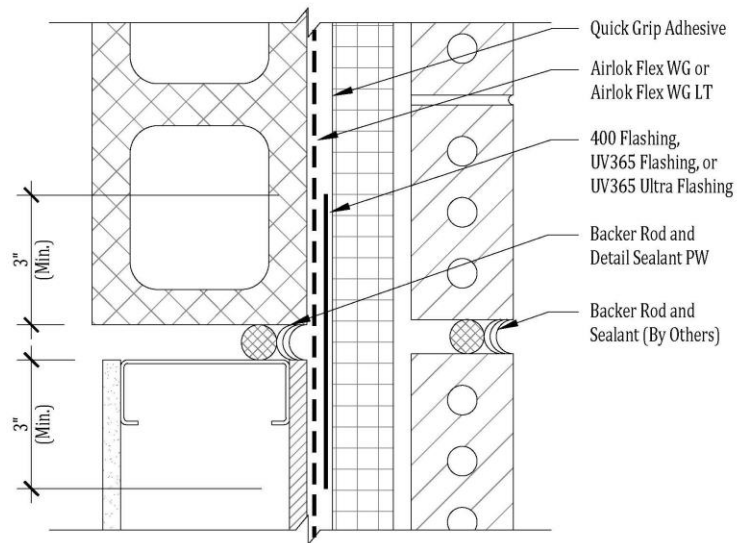


Common Polyguard® Airlok Flex® WG and Airlok Flex® WG LT Membrane Applications

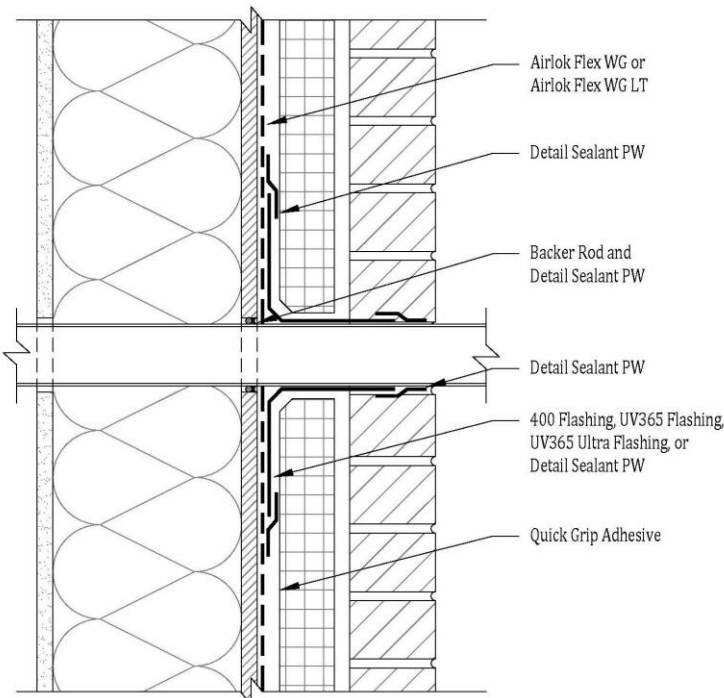
These diagrams are not intended to be application instructions, simply illustrations



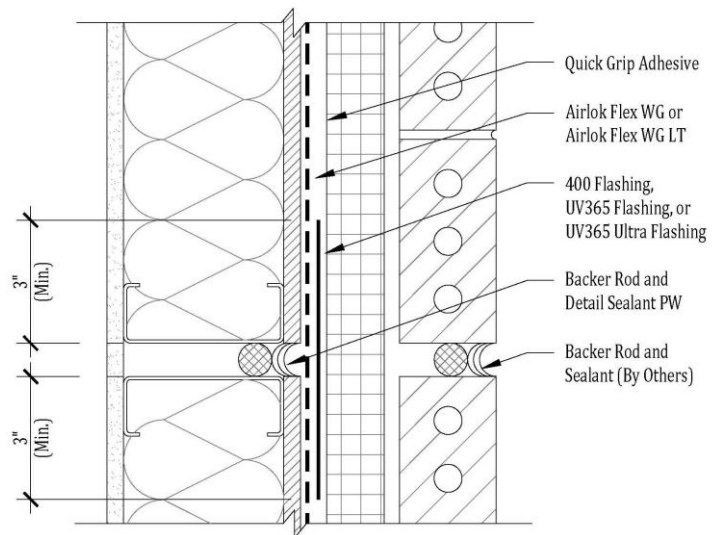
Airlok Flex WG or Airlok Flex WG LT Typical Wall



Airlok Flex WG or Airlok Flex WG LT Typical Wall



Airlok Flex WG or Airlok Flex WG LT Penetration



Airlok Flex WG or Airlok Flex WG LT Expansion Joint

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