

## AIRLOK® SHEET UV ULTRA 400 NP

Non-Permeable Aluminum Air & Moisture Barrier Sheet Membrane

## Product Data Sheet

### PRODUCT NAME

Airlok® Sheet UV Ultra 400 NP Air & Moisture Barrier

### MANUFACTURER

Polyguard Products, Inc.  
Ennis, TX75119  
(214) 515-5000  
[www.polyguard.com](http://www.polyguard.com)

### PRODUCT DESCRIPTION

#### BASIC USES

Airlok® Sheet UV Ultra 400 NP Air and Moisture Barrier is a non-permeable sheet membrane, available in various sizes, designed for air and moisture protection in both field and flashing applications.

Airlok® Sheet UV Ultra 400 NP, when applied to a structural substrate, will give excellent resistance to air leakage and vapor diffusion.

*Strengths* – Functions as the traditional 40-mil rubberized-asphalt sheet for field membranes and window flashings, receives a wide range of sealants and has two years of UV exposure with extensive NFPA 285 assembly. Can be applied at temperatures of 40°F (4°C) and rising.

*Limitations* – Maximum in-service temperature of 160°F, and cannot be used for through wall flashings in masonry facade.

*Uses* – Field membrane and window flashings for assemblies that will be exposed to UV exposure due to long construction schedules.

#### ACCESSORIES

- Airlok® Flash-N-Roll is a single-component, cold-fluid-applied, Silyl Terminated Polyether (STPE) fluid-applied air barrier and/or flashing material; that combines the best of silicone and polyurethane properties.
- Airlok® Gun-N-Spread is a single-component, gun and trowel cold-applied Silyl Terminated Polyether (STPE) fluid flashing material; that combines the best of silicone and polyurethane properties.
- Airlok® Detail-N-Joint is a single-component, cold-applied, Silyl Terminated Polyether (STPE), fiber-filled, fluid joint filler and transition flashing material; that combines the best of silicone and polyurethane properties.
- 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.
- 650 LT Liquid Adhesive, a rubber-based, tacky adhesive which is specifically formulated to provide excellent adhesion.

- 650 WB Liquid Adhesive a water-based, rubber-based adhesive which is specifically formulated to provide excellent adhesion.
- California Sealant is a rubber-based sealant which is specifically formulated to provide excellent adhesion.

### PRODUCT FEATURES

Airlok® Sheet UV Ultra 400 NP offers many advantages over other air and moisture barrier systems:

- **UV Resistant:** Airlok® Sheet UV Ultra 400 NP resists sunlight for up to 2 years.
- **Strong, yet flexible:** Airlok® Sheet UV Ultra 400 NP can be used to accommodate various dynamic movements and change of plane.
- **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-adhered:** The rubberized-asphalt properties allow for the membrane to adhere to itself and other materials; such as wood, metal, concrete, as well as fasteners that are left in place.

### COMPOSITION & MATERIALS

Airlok® Sheet UV Ultra 400 NP 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

#### SURFACE PREPARATION

Clean all surfaces of dust, dirt and foreign matter. Eliminate sharp protrusions which may puncture membrane. Surfaces should be dry prior to application of 650 LT Liquid Adhesive, 650 WB Liquid Adhesive, California Sealant, or a low-rise spray adhesive and the Airlok® Sheet UV Ultra 400 NP.

**PRIMING:** Apply 650 LT Liquid Adhesive or California Sealant at a rate of 250-300 square feet per gallon or, or 650 WB Liquid Adhesive at a rate of 350-400 square feet per gallon, or a low-rise spray adhesive; and allow the adhesive to dry tacky to the touch before covering with associated accessories. Do not thin/reduce liquid adhesive/sealant. If a substrate has been coated with Polyguard® 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/sealant is not necessary.

**SYSTEM APPLICATION:** Pre-cut Airlok® Sheet UV Ultra 400 NP material into pieces easy to handle. Peel the silicone-coated release sheet off, then start applying the membrane with pressure. Use a hand roller to assure that the Airlok®

Sheet UV Ultra 400 NP is adhered to primed substrate. Vertical and reverse laps will be detailed with Detail Sealant PW™ or Airlok® Detail-N-Joint. All overlaps of air barrier membrane require at a minimum of 2 1/2-inch side lap and 4-inch end lap.

Install Airlok® Sheet UV Ultra 400 NP 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.

A possible adhesion enhancement would be to apply 650 LT Liquid Adhesive or California Sealant.

**DETAILS/PENETRATIONS:** Detail Sealant PW™ or Airlok® Detail-N-Joint shall be used to seal any exposed edges in the membrane due to side/end laps, tie wires, pipes and other penetrations.

**WINDOW OPENINGS & FLASHINGS:**

Various terminations, transitions, and penetrations; such as window openings, thru-wall flashings, and pipes are addressed with the various cut-sizes of the membrane in conjunction with the accessories listed previously.

**STORAGE**

Unload and store the Airlok® Sheet UV Ultra 400 NP System components in a manner that prevents damage to the materials. Protect all containers from weather and fasten all can lids securely.

**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  
Email: [archtech@polyguard.com](mailto:archtech@polyguard.com)  
Website: [www.polyguard.com](http://www.polyguard.com)

| PROPERTY   | TEST METHOD               | TYPICAL VALUE   |
|--|---------------------------|---|
| MEMBRANE THICKNESS                                   | ASTM D 1000               | 40 Mils   |
| COLOR  | -                         | 36" width: non-printed silver<br>6" to 12" widths: silver |
| SERVICE TEMPERATURE                                  | -                         | -40°F to 160°F<br>(-40°C to 71°C)                         |
| AIR PERMEANCE  | ASTM E 2178               | 0.00 CFM/SF<br>(0.0005 L/s*m²)                            |
| AIR LEAKAGE  | ASTM E 283                | Pass  |
| WATER RESISTANCE                                     | AATCC 127-08              | Pass  |
| TENSILE STRENGTH - MEMBRANE                          | ASTM D 412 Modified Die C | 656 PSI (MD)<br>767 PSI (TD)                              |
| TESNILE STRENGTH - MEMBRANE                          | ASTM D 882 Modified       | 943 PSI (MD)<br>992 PSI (TD)                              |
| BREAKING STRENGTH                                    | ASTM D 882 Modified       | 35.9 lbs/in (MD)<br>43.1 lbs/in (TD)                      |
| ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT  | ASTM D 412 Modified Die C | > 800%  |
| PERMEANCE TO WATER VAPOR TRANSMISSION                | ASTM E 96 Method B        | 0.00 Perms  |
| PUNCTURE RESISTANCE -MEMBRANE                        | ASTM E 154                | 78.6 lb <sub>f</sub>                                      |
| NAIL SEALABILITY                                     | ASTM D 1970               | Pass  |
| LOW TEMPERATURE FLEXIBILITY                          | ASTM D 1970               | Pass  |
| PULL ADHESION - CONCRETE                             | ASTM D 4541               | 33.8 PSI  |
| PULL ADHESION - DENSGLOSS®                           | ASTM D 4541               | 34.0 PSI  |
| PEEL ADHESION - CONCRETE                             | ASTM D 903                | 9.51 lbs/in. width  |
| PEEL ADHESION - DENSGLOSS®                           | ASTM D 903                | 9.51 lbs/in. width  |
| LAP PEEL ADHESION                                    | ASTM D 1876               | 4 lbs/in. width   |
| SYSTEM PROPERTIES                                    | TEST METHOD               | TYPICAL VALUE   |
| AIR PERMEANCE OF AN ASSEMBLY                         | ASTM E 2357               | 0.012 cfm/ft²@ 1.57 psf                                   |
| EVALUATION OF FIRE PROPAGATION OF BUILDING MATERIALS | NFPA 285                  | Compliant*  |

\*Related to specific assemblies

| <b>PACKAGING</b>                                  | <b>PART NUMBER</b>            | <b>UNIT SIZE</b>    |
|---|-------------------------------|---------------------|
| <b>AIRLOK® SHEET UV ULTRA 400 NP</b>              | varies/size                   | 75' roll            |
| <b>AIRLOK® SHEET UV ULTRA 400 NP Accessories:</b> |                               |                     |
| AIRLOK® STPE WRB FLASH-N-ROLL                     | AIRLOK STPE 2400-2 GAL        | 2-gallon pail       |
| AIRLOK® STPE WRB FLASH-N-ROLL                     | AIRLOK STPE 2400-5 GAL        | 5-gallon pail       |
| AIRLOK® STPE WRB GUN-N-SPREAD                     | AIRLOK STPE 2100-SAU 20 OZ    | 20 sausages/ctn     |
| AIRLOK® STPE WRB DETAIL-N-JOINT                   | AIRLOK STPE 2200-SAU 20 OZ    | 20 sausages/ctn     |
| DETAIL SEALANT PW™                                | DETAIL SEALANT PW – SAU 20 OZ | 20 sausages/ctn     |
| DETAIL SEALANT PW™                                | DETAIL SEALANT PW – 3 GAL     | 3-gallon pail       |
| 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 |
| 650 WB LIQUID ADHESIVE                            | 650-5 WB ADH                  | 5-gallon pail       |
| CALIFORNIA SEALANT                                | CALSEAL5                      | 5-gallon pail       |

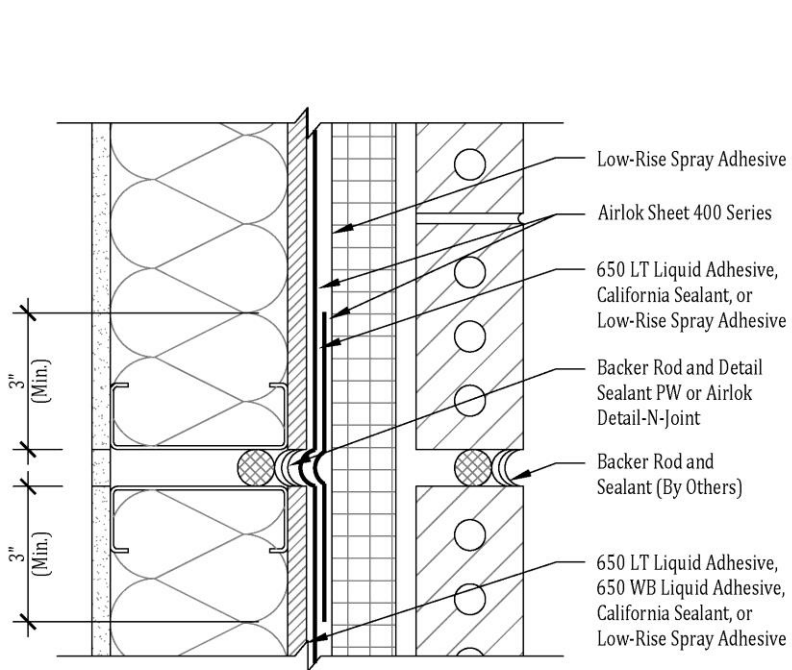
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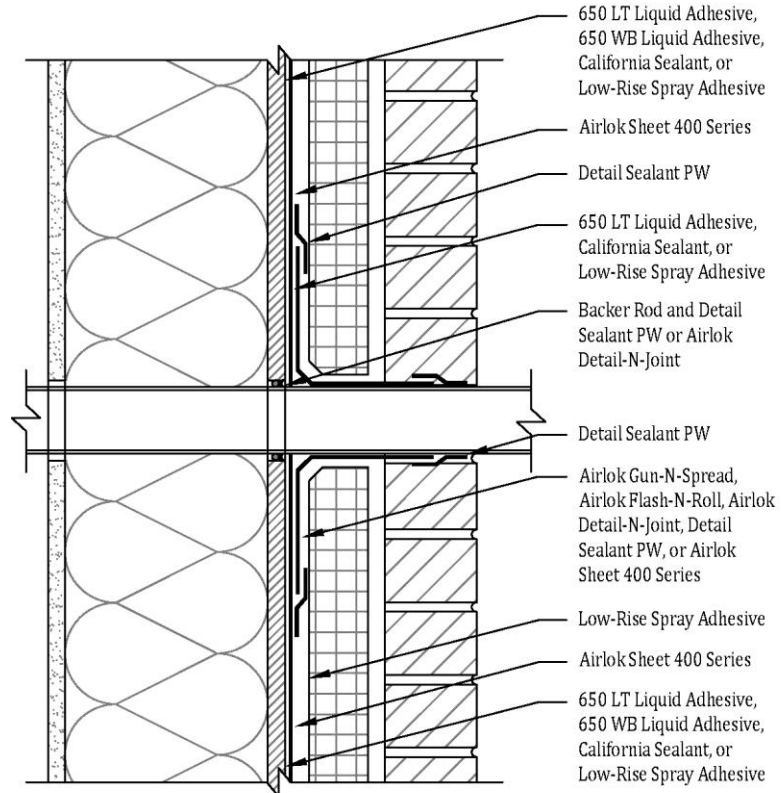
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## Common Polyguard® Airlok Sheet 400 Series Applications

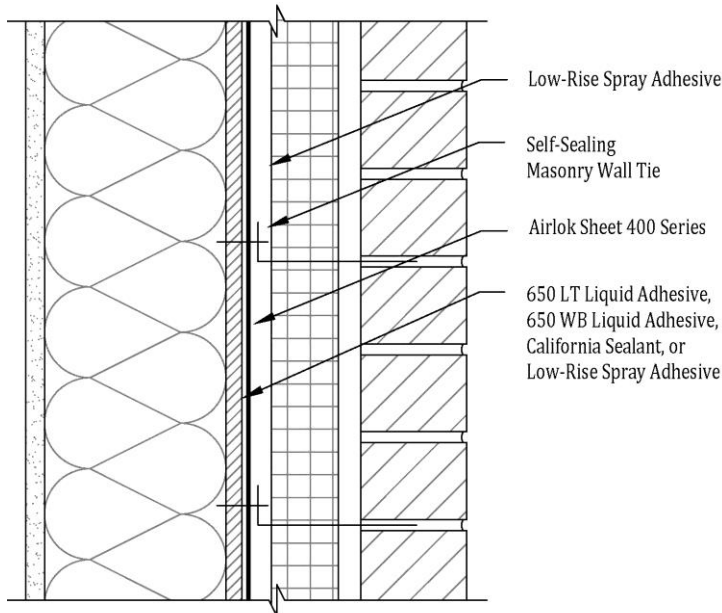
These diagrams are not intended to be application instructions, simply illustrations



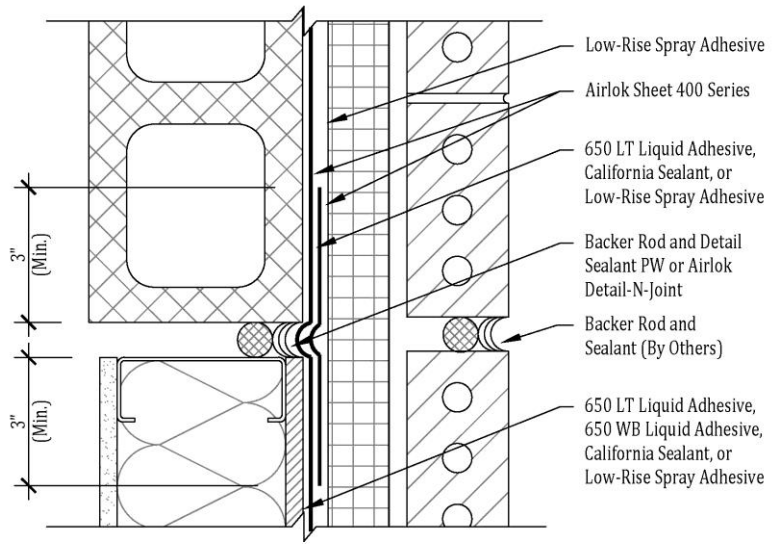
Airlok Sheet 400 Series Expansion Joint



Airlok Sheet 400 Series Penetration



Airlok Sheet 400 Series Typical Wall



Airlok Sheet 400 Series Substrate Transition

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