

# POLYGUARD 400 AIR AND MOISTURE BARRIER MEMBRANE

## LAMINATED SELF-ADHESIVE MEMBRANE SYSTEM FOR AIR AND MOISTURE BARRIER APPLICATIONS

### DESCRIPTION:

**POLYGUARD 400 AIR AND MOISTURE BARRIER** is a 40 mil self-adhering, self-healing membrane consisting of a rubberized asphalt waterproofing element, bonded to a strong cross-laminated polyethylene film top surface.

**400 AIR AND MOISTURE BARRIERS** are available in a 12", 16", 18", 24" and 48" widths for a wide variety of conditions.

**POLYGUARD 650 LT LIQUID ADHESIVE**, a rubber based material in solvent solution, is used to prepare surfaces in all **AIR AND MOISTURE BARRIER applications**. Low VOC compliant adhesives available for areas with special requirements.

**POLYGUARD 650 MASTIC** is a high quality rubberized asphalt based material. Used to seal exposed top terminating edges of air and moisture barrier membrane, **650 MASTIC** eliminates the need for reglets in backup system. Tie wires, pipe and other penetrations and terminations are sealed by **650 MASTIC**.

**POLYGUARD 95 LIQUID MEMBRANE**, a two component urethane material, is used to detail areas behind the sheet membrane.

**POLYGUARD PREFABRICATED END DAMS AND CORNERS** are preformed and self-adhesive, and are used around windows, door openings and beam headers forming a continuous water deterrent seal.

### USES:

**POLYGUARD 400 AIR AND MOISTURE BARRIERS** when applied to a structural substrate will give excellent resistance to air leakage and vapor diffusion.

### ADVANTAGES:

**400 AIR AND MOISTURE BARRIERS** offer many advantages over other air and moisture barrier systems:

- 1) **STRONG, YET FLEXIBLE** - **POLYGUARD AIR AND MOISTURE BARRIER** can be field fabricated to meet various job site conditions without cracking as compared to some metal systems. The high puncture resistance provides protection against abuse by other trades during and after installation.
- 2) **FULLY ADHERED** - The rubberized asphalt membrane adheres tenaciously to the surface and itself eliminating membrane blowoff and tears, before exterior wall installation.
- 3) **COST EFFECTIVE** - **POLYGUARD AIR AND MOISTURE BARRIER** eliminate the need for a reglet. Top terminations should be made with a termination bar or mechanically fastened and sealed with a trowelled bead of **POLYGUARD 650 MASTIC**.
- 4) **PERMANENT** - Used in many corrosive application's of concrete waterproofing in high alkali conditions. Materials used in **POLYGUARD AIR AND MOISTURE BARRIERS** have been proven to be effective against moisture for over 25 years. Once installed and protected from ultraviolet light, the membrane will not rot or decay from mildew, mold or plasticizer migration like metal or PVC materials.
- 5) **STRETCHABLE** - **400 AIR AND MOISTURE BARRIERS** can accommodate a high degree of masonry movement.
- 6) **SELF-HEALING** - The cold flow properties of **POLYGUARD'S** rubberized asphalt adhesive used in this air and moisture barrier will help to self-heal if the membrane is punctured.
- 7) **SELF-SEALING** - The rubberized asphalt properties allows for self-sealing seams at temperatures above 40°F.
- 8) **POLYGUARD END DAMS AND CORNERS** - Foolproof and low cost alternative to expensive fabricated metal end dam and corner systems.

### GUIDE SPECIFICATIONS:

#### PRODUCTS/HANDLING:

**POLYGUARD AIR AND MOISTURE BARRIER SYSTEMS** components should be unloaded and stored in such a manner that prevents injury to the materials. All containers shall be protected from weather and can lids securely fastened.

#### EXECUTION:

**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 **POLYGUARD 650 LT LIQUID ADHESIVE** and **400 AIR AND MOISTURE BARRIER**.

**PRIMING:** **650 LT LIQUID ADHESIVE**, required on all applications, should be applied at an average rate of 250-300 S.F./gallon by brush or roller. Do not thin liquid adhesive. **650 LT LIQUID ADHESIVE** will become tacky. Membrane can be applied when liquid adhesive becomes tacky.

# Polyguard

This Information is based on our best knowledge, but  
POLYGUARD cannot guarantee the results to be obtained.

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**SYSTEM APPLICATION:** Pre-cut **POLYGUARD 400 AIR AND MOISTURE BARRIER** material into pieces that are easy to handle. Peel silicone-coated release sheet off, start applying membrane with pressure. Use a hand roller or blunt end object to assure that the **400 AIR AND MOISTURE BARRIER** is adhered to corners and angles. Vertical termination on backup system should extend 8" and be sealed on the day of installation with **POLYGUARD 650 MASTIC**. In addition a termination bar is recommended. **AIR AND MOISTURE BARRIER** is installed horizontally to primed block work between projecting masonry reinforcing, beginning at the base of the wall. Each layer should be installed so that the top edge of the membrane runs continuously along the underside of the line of masonry reinforcing. All overlaps of barrier membrane requires a minimum 2" overlap and should shed or run parallel to direction of water flow. It will be necessary to cut the membrane at the tie wires protruding from the wall to enable the membrane to be laid in place. Overlaps may need to be primed in temperatures below 40°F. Membrane may be applied to 25°F.

**DETAILS/PROTRUSIONS:** **650 MASTIC** is used to seal any cuts or edges in the membrane due to tie wires, pipes and other protrusions. **650 MASTIC** must never be put under the **400 AIR AND MOISTURE BARRIER**. **It is only used as a seal for edges that will be permanently exposed.**

**LIMITATIONS:**

**POLYGUARD 400 AIR AND MOISTURE BARRIERS** can not be applied in areas that will be permanently exposed to sunlight. **POLYGUARD MEMBRANES** should be covered within 30 days to prevent prolonged exposure to sunlight.

**PRECAUTIONS:**

**650 LT LIQUID ADHESIVES** are industrial coatings and would be harmful or fatal if swallowed. Marked as a red label flash point product, prohibit flames, sparks, welding and smoking during application. Refer to product label and Material Safety Data Sheets for handling, use and storage.

Provision should be provided that moisture is not trapped in wall cavity.

Solvents could be irritating to the eyes. In case of contact with eyes, flush with water and contact physician.

Avoid prolonged contact with skin and breathing of vapor or spray mist from liquid adhesive. If in confined areas, use adequate forced ventilation, fresh air masks, explosion proof equipment, and clean clothing. Close container after each use. Keep out of reach of children.

This material is offered for sale by **POLYGUARD PRODUCTS, INC**, only for the expressed purposes as described in this literature. Any use of the products described in this literature for purposes other than taught therein by **POLYGUARD PRODUCTS, INC**, shall be the responsibility of the purchaser and **POLYGUARD PRODUCT, INC**, does not warrant nor will be responsible for any misuse of these products. **POLYGUARD PRODUCTS, INC**, will replace F.O.B. Ennis, Texas, material not meeting our manufacturer's specifications one year from date of sale. **POLYGUARD** products as described herein are for industrial use only. The application procedures should be performed by workmen who are skilled in the application of materials described herein in accordance with manufacturer specifications.

**MATERIAL SAFETY DATA:**

All Material Safety Data Sheets and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Consult **POLYGUARD PRODUCTS, INC.'S** Material Safety Data Sheets and OSHA regulations for additional safety and health information for the products described herein. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product including waste disposal.

This is not a Material Safety Data Sheet and is not to be used as such. **POLYGUARD** has prepared separate Material Safety Data Sheets on each product.

**TECHNICAL SERVICE AND AVAILABILITY:**

Technical assistance, information and **POLYGUARD** products are available through a nationwide network of distributors and architectural representatives, or contact **POLYGUARD PRODUCTS, INC**.

**TECHNICAL DATA:**

PHYSICAL PROPERTIES	POLYGUARD 400
Total Thickness (Mils)	40 Mils.
Puncture Resistance - Film (ASTM-D-781) Kg/CM	110
Puncture Resistance of Composite Membrane (ASTM E-154) LBS	40 Min.
Tensile Strength of Composite Membrane (ASTM-D-412 Modified Die C)	750 PSI Min.
Elongation of Rubberized Asphalt (ASTM-D-412 Modified Die C)	400% Min.
Water Vapor Transmission-(ASTM-E-96 Method B) (Grains/Sq.Ft./Hr. in HG)	0.035 Max.
Water Vapor Transmission - Permeance (ASTM E-96 Method B)	.014

**PACKAGING:**

POLYGUARD 400 AIR AND MOISTURE BARRIERS					
ROLL SIZE	SF/ CTN	ROLLS/ CTN	WT/ CTN	CTN/ PALLET	PALLETS/ T/L
12" x 75'	225	3	60 LBS	36	16
16" x 75'	300	3	80 LBS	25	15
18" x 75'	225	2	60 LBS	36	16
24" x 75'	300	2	80 LBS	25	15
48" x 75'	300	1	80 LBS	25	15