

# POLYGUARD LIQUID AIR BARRIER - NP

## DESCRIPTION:

**POLYGUARD LIQUID AIR BARRIER - NP** is a non-permeable modified asphalt emulsion designed to be an air and vapor barrier coating for a variety of above grade surfaces including but not limited to concrete, CMU, masonry, gypsum sheathing and metal used in cavity wall construction. **POLYGUARD LIQUID AIR BARRIER - NP** is designed to be applied by roller, brush or with airless spray equipment.

## BENEFITS:

- Excellent elongation and recovery over construction surfaces.
- Excellent adhesion to substrates in wall cavity construction, will not delaminate.
- High solids, water based, non toxic and non flammable.
- Low air permeability tested results.
- Very low water vapor permeance.
- Fast cure with single component ease.
- Extended UV performance.
- HAPs Free (Hazardous Air Pollutants)
- This product has been third party tested and evaluated for compliance with Air Barrier Association of America (ABAA) and is compliant with ABAA Material Evaluation for Air Barrier Materials, Components and Assemblies – Feb. 2006 Version 1.1.

## INSTALLATION:

All substrates to receive **POLYGUARD LIQUID AIR BARRIER - NP** must be clean, dry and free of loose materials, release oils and other contaminants. These potential bond-inhibiting substances must be removed by power washing or other suitable methods prior to application.

**POLYGUARD LIQUID AIR BARRIER - NP** may be applied by either roller or airless spray equipment. Equipment similar to Graco, Inc. GH 833 is acceptable. The application rate will vary according to substrate conditions. The coverage rate should average 25 SF per gallon. Application thickness should be 60 mils wet which will yield approx. 40 – 45 mils when cured.

### **Joins & Crack Treatment:**

Cracks up to 1/16" can be addressed with a double spray of the **Polyguard Liquid Air Barrier NP**.

Joints and cracks between rigid insulation, exterior grade gypsum and plywood larger than 1/16" must be sealed with **Polyguard Alumaflash Membrane** applied to primed substrate with **Polyguard 650 LT Liquid Adhesive or California Sealant**. **Polyguard Alumaflash Membrane** must be lapped a minimum of 3" on both sides of the crack.

Surfaces should be tied in with beams, columns, window and door frames, etc., using **Polyguard Alumaflash Membrane** lapped to prepared substrate with **Polyguard 650 LT Liquid Adhesive or Polyguard California Sealant**. **Polyguard Alumaflash Membrane** must lap a minimum of 3" beyond transition joint. Mechanical attachment should be made to all window and doorframes or a properly designed sealant joint provided.

Care should be taken by the contractor to follow all applicable safety instructions from the equipment manufacturer to insure a safe and efficient application. Attention to the potential for overspray in windy conditions should be a key responsibility of the installing contractor. All appropriate worker safety equipment should be identified in the MSDS documents for this product.

## LIMITATIONS:

- Material must not be allowed to freeze. Store at 40° F or above.
- Material must not be thinned for installation.
- Solvent based products should not be applied over this product.
- Surfaces to which this material is to be applied must be free from all foreign matter that might impede adhesion.
- Material must not be installed when precipitation is imminent and should be allowed to remain dry until it is cured.

# Polyguard

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

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**PRECAUTIONS:**

- If spray equipment is used please consult manufacturer's instructions for safe and efficient operation.
- Appropriate respiratory precautions should be taken to protect workers from unnecessary exposure. Consult the MSDS sheets for this product for details.
- Installing contractors should be aware of the potential for overspray if windy conditions exist or if equipment is not operating properly.

**POLYGUARD LIQUID AIR BARRIER - NP** is an industrial adhesive and should only be used in accordance with **POLYGUARD** specifications and after review of appropriate MSDS safety documentation. This product is quick drying and environmentally friendly with very low VOC content. Refer to product label and Material Safety Data Sheets for handling, use and storage. Be sure to use suggested precautions when using this product in proximity to other **POLYGUARD** products that may include: **POLYGUARD 650, 300, 400, 650 LT LIQUID ADHESIVE, CALIFORNIA SEALANT, SHUR-TAC, MASTIC, LM-95 and DETAIL SEALANT.**

This adhesive 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 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.

**PACKAGING:**

**POLYGUARD LIQUID AIR BARRIER - NP** is black in color and is available in 5 gallon pails and in 55 gallon drums.

**MATERIAL SAFETY DATA SHEETS:**

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.** 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.

**LIMITED WARRANTY:**

**POLYGUARD PRODUCTS, INC.** has no control over the storage, handling or use of this product, thus the guarantee is limited to the purchase price of the defective material only.

This product is not covered by Polyguard Products ISO 9001 Quality System.

**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.**

<b>TECHNICAL DATA: POLYGUARD LIQUID AIR BARRIER - NP</b>		
<b>PHYSICAL PROPERTIES</b>	<b>TEST METHOD</b>	<b>TYPICAL RESULTS</b>
Air Permeance	ASTM E 2178	0.00159 L/s/m <sup>2</sup> @ 75 Pa
Water Vapor Transmission	ASTM E 96-00e1, Desiccant Method	0.134 Perm average
Elongation & Tensile Strength	ASTM D 412-98a, Test Method A, Die C	AT 47 mils dry, 41.3 psi tensile strength, 807.38% elongation
Water Absorption	ASTM D 570-98	4.63% in 24 hrs. @ 77° F
Adhesion Strength to Poured Concrete	ASTM D 903.98	13.239 lbf/in.
Adhesion Strength to Masonry	ASTM D 903-98	12.092 lbf/in.
Proportion of Solids	ASTM D 2697-86 (1998)	65.62%
Volatile Content	ASTM D 3960	0.52%
Nail Sealability	ASTM D 1970-01	No leaks
Pull Adhesion to Poured Concrete	ASTM D 4541	77.2 psi/532.3 kPa
Pull Adhesion to Masonry	ASTM D 4541	106.0 psi/730.8 kPa