

## ALUMAGUARD® Flexible Weather-Proofing Jacket



**Alumaguard®** weather-proofing cladding from **Polyguard** products is the original, flexible self-healing membrane used world-wide on exterior ductwork, refrigeration and chilled water piping, tanks, vessels and equipment.

- Proven: With millions of square feet sold over the last 12 years, **Alumaguard** has the track-record engineer's favor. It replaces labor-intensive rigid aluminum and fabric/mastic systems at like or less installed cost.
- Self-Healing: the rubberized bituminous membrane seals small cuts punctures; is UV stable; and expands and contracts with the underlying substrate.
- Excellent emissivity and sound attenuation properties.

### Description

**Alumaguard** is a composite membrane consisting of an embossed UV-resistant aluminum outer layer laminated to a multi-ply cross-laminated polyethylene film to which is applied a layer of rubberized asphalt specially formulated for use on insulated duct and piping applications. The rubberized asphalt acts as the substrate adhesive and provides the self-healing characteristics necessary to seal around punctures. Protecting the rubberized asphalt is an easily removed plastic release liner which gives **Alumaguard** its peel and stick functionality.

### Uses

**Alumaguard** is designed to be used outdoors to weather-proof exterior insulated ductwork, piping or other insulated tanks, vessels and equipment. **Alumaguard** resists moisture, air and vapor intrusion.

**Notes:** Prior to the installation of **Alumaguard®**, ducts must be sealed in accordance with SMACNA HVAC Duct Construction Standards Metal and Flexible, 3rd Edition (2005), Seal Class A.

### Installation

All roof-top ductwork to which **Alumaguard** is to be applied **must** be designed with adequate slope (watershed) to prevent ponding water. Ponding water is defined as water that stays in place for greater than 24 hours.

**Alumaguard** should only be applied to faced fiberglass or faced closed-cell foam insulation board.

**Alumaguard** is a "peel and stick" product which must be applied to a properly prepared substrate. In duct applications, **Alumaguard® Lite** must be used for the underside of the duct to eliminate the need for pinning. Complete installation instructions are available on our website, [www.polyguardproducts.com](http://www.polyguardproducts.com).

### Packaging

**Alumaguard** is available in 4", 24", and 36" rolls packaged 12, 2 and 1 to a carton respectively in an embossed foil finish.

### Limited Warranty

**Polyguard Products** warrants material to be free from leaks caused by defects in materials or manufacturing for a period of ten(10) years from the date of installation when material is applied according to installation instructions in effect at the time of installation. Contact **Polyguard** for complete details on the Limited Warranty.



from damaging chemicals including petroleum and/or coal tar solvents.

**Alumaguard** should not be adhered directly to commercial roofing membranes. For specific information regarding **Alumaguard** and commercial roofing, refer to Technical Bulletin, 2011-1.

**Alumaguard** should not be handled on the asphalt side during installation; handle edges with the release liner still attached, pull the release liner off as you press it onto the substrate.

**Alumaguard** should be stored in a clean dry area with boxes laid horizontally and not on end. Alumaguard has a recommended shelf life of 12 months.

**Note: Before installing Alumaguard<sup>®</sup>, please obtain a full set of our most current installation instructions on our website, or call Polyguard at 800-541-4994.**

**Limitations**

**Alumaguard<sup>®</sup>** should be installed on a properly prepared, clean and dry substrate. **Alumaguard** must be protected

**Alumaguard<sup>®</sup> Technical Properties and Testing**

Membrane Property	Test Method	Results
Total Product Thickness	ASTM D1000	.06"
Water Vapor Transmission (grains/hr-ft <sup>2</sup> )	ASTM E96-00	.002
Permeance (US Perms)	ASTM E96-00	.005
Peel Adhesion (to primed steel)	ASTM D1000	>12 lbs/in
Elongation at Break	ASTM D882	400%
Low Temperature Pliability	ASTM D146 (modified)	No Cracks@-15°F,-31°F
Tensile Strength (Film only)	ASTM D882 (Method B)	5000 PSI
Puncture Resistance (Film Only)	ASTM E154	>40 Lbs
Fungus Resistance	ASTM G21-90	No Growth
Sound Transmission Coefficient	ASTM E 90-97	0.18
Upper Temperature Limit	LAB	160°F
Bond to Itself (2 hr UV Exposure) Lbs/1"	ASTM D1000	11.2
Bond to Itself (3 day UV Exposure) Lbs/1"	ASTM D1000	22.3
Peel Adhesion (overlap bond)@-15°F	ASTM D1000	19.5
Peel Adhesion (overlap bond)@-31.5°F	ASTM D1000	14.7
Emissivity	ASTM C1371	.030

*Note: Request Technical Bulletin for test results on exposure to ammonia refrigeration liquids and gases.*