

ALUMAGUARD® All-Weather Flexible Weather-Proofing Jacket

Alumaguard® All-Weather weather-proofing cladding from **Polyguard Products** is the only flexible insulation cladding available in the market which combines the self-healing characteristics of rubberized asphalt with the ease of application and cold weather performance of acrylic adhesive-based products.

- Proven: Uses the same outer layer and rubberized asphalt compound as the original **Alumaguard** membrane which has been used successfully in the market for 12 years. True Zero Perm Performance
- Self-Healing: rubberized bituminous membrane seals small cuts and punctures; aluminum is UV stable.
- Acrylic adhesive allows installation down to 10°F.
- No pinning or activator required
- Excellent emissivity
- Can be used year round
- Available in bright white **Alumaguard® Cool Wrap** finish which meets California Title 24, CRRC and Energy Star requirements.

Description

Alumaguard All-Weather is a composite membrane consisting of a multi-ply embossed UV-resistant aluminum foil/polymer laminate to which is applied a layer of rubberized asphalt specially formulated for use on insulated duct and piping applications. A metalized polyester film coated with a high quality low temperature acrylic adhesive is then applied to the rubberized asphalt. A heavy duty release liner gives **Alumaguard All-Weather** its peel and stick functionality.

Uses

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

Notes: Prior to the installation of **Alumaguard All-Weather**, 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 All-Weather** 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® All-Weather should only be applied to faced fiberglass or faced closed-cell foam insulation board.

Applying **Alumaguard All-Weather** to light density duct wrap is not recommended. Round or oval duct should be insulated with 3# or 6# pipe and tank wrap with appropriate facing.

Alumaguard All-Weather is a “peel and stick” product which must be applied to a properly prepared substrate. In duct applications, **Alumaguard All-Weather** can be used for the underside of the duct and does not require pinning. Complete installation instructions are available on our website, www.polyguardproducts.com.

Packaging

Alumaguard All-Weather is available in 4” x 50’ and 35” x 75’ rolls packaged 12 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.

Limitations

Alumaguard® All-Weather should be installed on a properly prepared, clean and dry substrate. **Alumaguard All-Weather** must be protected from damaging chemicals including petroleum and/or coal tar solvents.

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

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

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

Alumaguard® All-Weather Technical Properties and Testing		
Membrane Property	Test Method	Results
Product Thickness (w/o liner)	Micrometer	35.5 mils 38.5 (Cool Wrap)
Product Weight	Scale	0.2 lbs/sf
Water Vapor Transmission (grains/hr-ft ²)	ASTM E96-00	.00
Permeance (US Perms)	ASTM E96-00	.00
Peel Adhesion (to primed steel)	ASTM D1000	> 16 lbs/in
Elongation at Break	PSTC 131	164%
Tensile Strength	PSTC 131	50 lb/in
Puncture Resistance (Film Only)	ASTM D774	150 PSI
Mold Resistance	ASTM C1338	Pass
Upper Temperature Limit	LAB	150°F
Emissivity	ASTM C1371	.030
Alumaguard® Cool Wrap Properties and Test Results	Solar Reflectance	Thermal Emittance
Cool Roof Rating Council(CRRC) Initial	0.86	0.82
Cool Roof Rating Council(CRRC) 3 Year	0.77	0.86
Energy Star 3 Year	0.84	0.78
California Title 24	Exceeds 0.75	Exceeds 0.75