

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 is typically applied to faced fiberglass board, rigid isocyanurate foam board with facing, or unfaced extruded polystyrene foam board.

Alumaguard All-Weather products are most commonly applied over rigid insulation on outdoor piping and ductwork systems. However, **Alumaguard All-Weather** products may be applied to clean and dry bare metal ducts. Care must be taken at terminations and where ducts attach to supports to make sure water entry is not allowed. All published application recommendations must be followed.

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 75’ 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 214-515-5000.

Alumaguard® All-Weather Technical Properties and Testing		
Membrane Property	Test Method	Results
Product Thickness (w/o liner)	Micrometer	34 mils 37 (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