

## ALUMAGUARD® LITE

### Flexible Weather-Proofing Jacket



**Alumaguard® Lite** flexible weather-proofing cladding from **Polyguard Products** is one of the family of **Alumaguard** cladding products that offers superior cold weather performance, ease of handling and application and true zero perm performance

- Meets ASTM E84 25/50 Smoke and Flame requirements (Silver smooth and embossed)
- Meets ASTM C1775, Type 3 – Standard Specification for Laminate Jacketing
- Cold weather acrylic adhesive allows installation down to 10°F.
- High puncture and tear resistance
- Zero permeability
- Easy to install with no special tools required
- No pinning or activator required
- Excellent emissivity
- Available without adhesive for fabrication applications
- Available in a matte white finish, **Alumaguard® Cool Wrap** meets the typical solar reflectance and thermal emittance requirements met by Cool Roofing membranes.

#### Description

**Alumaguard Lite** is a multi-ply high strength composite membrane consisting of multiple layers of UV resistant foil and tough puncture resistant polymer. This multi-ply lamination is then coated with a proven cold weather acrylic adhesive to which is applied a heavy-duty kraft liner that gives the membrane its peel and stick functionality.

#### Uses

**Alumaguard Lite** is designed to be used outdoors to weather-proof exterior insulated ductwork, piping or other insulated tanks, vessels and equipment or indoors on pipe systems and ductwork where a true zero perm vapor barrier and durable outer jacket is required. **Note: Prior to the installation of Alumaguard Lite, ducts must be sealed in accordance with SMACNA HVAC Duct Construction Standards Metal and Flexible, 3rd Edition (2005), Seal Class A.**

#### Installation

**Alumaguard Lite** is a “peel and stick” product which must be applied to a properly prepared substrate. In duct applications, **Alumaguard Lite** can be used for the underside of the duct and does not require pinning. It is the recommended product to be used on the underside of the duct in **Alumaguard** applications.

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

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

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**NIA** National Insulation  
Association

**Alumaguard® Lite** products are most commonly applied over rigid insulation on outdoor piping and ductwork systems. However, **Alumaguard Lite** 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.

**Packaging**

**Alumaguard Lite** is available in 3", 23" and 35.5" x 150' rolls packaged 16, 1 and 1 to a carton respectively. **Alumaguard Lite** is available in the following finishes: smooth silver, stucco embossed silver, and **Alumaguard® Cool Wrap** white.

**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 Lite** should be installed on a properly prepared, clean and dry substrate. **Alumaguard Lite** must be protected from damaging chemicals.

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

**Alumaguard Lite** should be stored in a clean dry area **Alumaguard Lite** has a recommended shelf life of 12 months.

**Alumaguard Lite Technical Properties and Testing**

Membrane Property	Test Method (ASTM)	Results
Total Product Thickness (w/o liner)	Micrometer	7 mils (Silver Smooth) 9 mils (Silver Embossed) 9 mils (Cool Wrap)
Water Vapor Permeance (perms)	E96, Procedure B	.00
Peel Adhesion (to primed steel)	D3330, Method A	62.4oz/in
Tensile Strength (film only)	ASTM D882	45 lbs/in (MD) 45 lbs/in (XD)
Elongation (film only)	ASTM D882	18% (MD) 24% (XD)
Puncture Resistance (film only)	ASTM D1000	21 Lbf
Fungi Resistance	C1338	Pass
Lower Temperature Exposure	C1263	-40°F
High Temperature Exposure	C1263	+240°F
Dimensional Stability	D1204	<0.5%
Flame/Smoke	E84	Meets 25/50
Emissivity	C1371	.030
<b>Cool Wrap Properties &amp; Test Results</b>	<b>Initial</b>	<b>Three Year</b>
Solar Reflectance (ASTM C1549)	0.86	0.82
Thermal Emittance (ASTM C1371)	0.82	0.86
California Title 24	Exceeds 0.75	Exceeds 0.75

**LEED® Point**

*Contributes to  
Energy  
Atmosphere (SA)  
Credit 1*

*Contributes to  
Indoor  
Environmental  
Quality (IEC)  
Credit 4.1*

VOC Content < 15  
g/l

**Note: Before installing Alumaguard® Lite** obtain a full set of installation instructions at [www.Polyguard.com](http://www.Polyguard.com) or by calling **Polyguard** at 214-515-5000 or by asking your local distributor or sales representative.