

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.
- 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

Description

Alumaguard Lite is a 5-ply high strength composite membrane consisting of multiple layers of UV resistant foil and tough puncture resistant polyester. 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.

Alumaguard® Lite is not recommended on systems where heavy abuse is expected or on ammonia, brine or glycol systems where expansion and contraction could compromise the acrylic bond to the substrate. Refer to our technical bulletin on this issue.

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

Complete installation instructions are available on our website, www.polyguardproducts.com.

Packaging

Alumaguard® Lite is available in 3", 23" and 35.5" x 150' rolls packaged 16, 2 and 1 to a carton respectively. The 23" size is considered special order. **Alumaguard Lite** is available in the following finishes: smooth silver, stucco embossed silver and smooth white. **Alumaguard Lite White** is not recommended for outdoor use.

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 Silver Technical Properties and Testing

Membrane Property	Test Method	Results
Total Product Thickness(w/o liner)	Micrometer	7 mils
Water Vapor Transmission(grains/hr-ft ²)	ASTM E96-00	.00
Permeance(US Perms)	ASTM E96-00	.00
Peel Adhesion(to primed steel)	PSTC-101	62.4oz/in
Breaking Strength	PSTC-131	80.9 lbs/in width
Tensile Strength(Film only)	ASTM D882(Method B)	5000 PSI
Puncture Resistance	ASTM D-1000	48.7 Lbs
Mold and Mildew Resistance	ASTM C-1338	Pass
Upper Temperature Limit	LAB	150°F
Peel Adhesion(overlap bond)after24 hrs, Lbs/1"	ASTM D1000	5.5
Peel Adhesion(overlap bond)@-15°F, Lbs/in	ASTM D1000	1.24
Tear Strength-die C, Lbs/in	ASTM D1000	900
Flame/Smoke	ASTM E-84	Meets 25/50
Emissivity	ASTM C1371	.030

Alumaguard Lite White Technical Properties and Testing

Membrane Property	Test Method	Results
Total Product Thickness(w/o liner)	Micrometer	5 mils
Water Vapor Transmission(grains/hr-ft ²)	ASTM E96-00	.00
Permeance(US Perms)	ASTM E96-00	.00
Peel Adhesion(to primed steel)	PSTC-101	62.4oz/in
Breaking Strength	PSTC-131	80.9 lbs/in width
Tensile Strength(Film only)	ASTM D882(Method B)	5000 PSI
Puncture Resistance	ASTM D-1000	48.7 Lbs
Mold and Mildew Resistance	ASTM C-1338	Pass
Upper Temperature Limit	LAB	150°F
Peel Adhesion(overlap bond)after24 hrs, Lbs/1"	ASTM D1000	5.5
Peel Adhesion(overlap bond)@-15°F, Lbs/in	ASTM D1000	1.24
Tear Strength-die C, Lbs/in	ASTM D1000	900
Flame/Smoke	ASTM E-84	Meets 25/50

Note: Before installing Alumaguard® Lite obtain a full set of installation instructions at www.PolyguardProducts.com or by calling **Polyguard** at 800-541-4994 or by asking your local distributor or sales representative.