



High Solids Polyester

(Coatings for Aluminum Extrusions)

Product Type

POLYLURE® 3000 is considered the "work horse" high solids coating system for aluminum extrusions. It is the most widely used of all extrusion coating systems manufactured by Valspar. This system is designed to meet the application, VOC and performance demands of the residential aluminum window and door market. Coatings in this system are field-proven, exterior quality finishes. They provide the exterior durability, resistance to chalking and chemical resistance demanded by this market. Applicators of this system enjoy the excellent coverage of POLYLURE® 3000 coatings along with its resistance to mar during fabricating operations.

All exterior components of aluminum windows and doors that will lend themselves to a factory applied oven baked finish can be coated with the POLYLURE® 3000 system. This system can be custom designed to meet the color, gloss, application and cure requirements of most manufacturers of these products. A unique tinting technique allows for rapid response to requests for special colors.

Application

POLYLURE® 3000 coatings are designed for spray application. They can be custom designed for application by manual non-electrostatic, manual electrostatic and high speed rotary atomizers such as disks and bells. They are formulated for application to aluminum that has been properly cleaned and pretreated in accordance with technical specifications from Valspar. Long-life durability and performance are achieved by applying 0.8 to 1.2 mils of POLYLURE® 3000 topcoat. For special applications, POLYLURE® 3000 may be applied at higher film builds.

Maintenance

POLYLURE® 3000 coatings exhibit stain resistance and require minimal maintenance. Surface residue is generally removed with conventional cleaning solutions and/or mild detergents. Minor scratches in the field may be touched up with acrylic modified air dry enamels or two package urethane enamels matched to the same color and gloss.

Availability

POLYLURE® 3000 coatings are available in a wide spectrum of standard colors. Special colors are also available from Valspar.



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Technical Data

TYPICAL PHYSICAL PROPERTIES OF POLYLURE® COATINGS ^(A)		
PROPERTY	RESULTS	TEST DESIGNATION
60° Specular Gloss	15 - 90	ASTM D-523
Pencil Hardness	H - 3H	ASTM D-3363
Film Adhesion		
Wet	Acceptable ^(B)	AAMA 2603
Dry	Acceptable ^(B)	AAMA 2603
Impact Resistance (direct)	Acceptable ^(C)	AAMA 2603
ACCELERATED TESTS	RESULTS	TEST DESIGNATION
Muriatic Acid Resistance	Acceptable ^(D)	AAMA 2603
Mortar Resistance	Acceptable ^(E)	ASTM C-207
Detergent Resistance	Acceptable ^(F)	AAMA 2603
Humidity, 1500 hrs. exposure @100% humidity and 100°F	Acceptable ^(G)	ASTM D-2247, ASTM D-714
Salt Spray 1500 hours exposure using 5% salt solution 95° - 100°F	Acceptable ^(G)	ASTM B-117, ASTM D-1654

NOTES:

- (A) Applied in accordance with Valspar technical specification sheet on properly treated aluminum surfaces.
- (B) One-sixteenth inch cross-hatch—no removal of film by tape and no blistering on wet test.
- (C) One-tenth inch deformation. No removal of film from substrate.
- (D) Fifteen minutes spot test of 10% solution cover with watch glass (convex side up) conducted at 65-70°F. No blistering or visual change in appearance.
- (E) Twenty-four hours exposure to 100% relative humidity at 100°F. Mortar easily dislodges with no loss of adhesion or visual change in appearance.
- (F) Immerse at least two specimens in 3% solution at 100°F for 72 hours. No loss of adhesion to substrate. No blistering and no significant visual change in appearance.
- (G) Conforms to AAMA 2603 performance specifications.

For More Information About Polylure® 3000

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