

# Polylure® 4000

## Flexible Polyester

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### *Coatings for Aluminum Extrusions*

#### **Product Type**

Polylure® 4000 coatings are flexible polyesters systems for aluminum extrusions. These coatings are ideal for post forming applications such as RV components, windshield trim, custom van trims and some interior residential components such as trim and railings. Polylure 4000 coatings meet the physical and performance requirements of AAMA 2603, *Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels*.

All aluminum extrusions that will lend themselves to a factory applied oven baked finish can be coated with the Polylure 4000® system. This system can be custom designed to meet the color, gloss, application and cure requirements of most manufacturers of these products. See other side for more details.

#### **Application**

Polylure® 4000 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. Polylure 4000 coatings are applied at 0.8 to 1.2 mils direct to properly cleaned and pretreated aluminum. For special applications, Polylure® 4000 may be applied at higher film builds.

#### **Maintenance**

Polylure® 4000 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. For cleaning and maintenance procedures for Valspar polyester coatings including Polylure 4000, go to [www.paintandcolor.com](http://www.paintandcolor.com).

#### **Availability**

Polylure® 4000 coatings are available in a wide spectrum of standard colors and gloss ranges. Special custom colors are also available from Valspar.

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### Technical Data

TYPICAL PHYSICAL PROPERTIES OF POLYLURE COATINGS (A)		
PROPERTY	RESULTS	TEST DESIGNATIONS
60° Specular Gloss	15-80	ASTM D-523
Pencil Hardness	F-H	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 DESIGNATIONS
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 surface.
- (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 100% solution cover with watch glass (convex side up) conducted at 65-70°F. No Blistering or 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 Plylure® 4000

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