



Ultra-durable polyester aluminum extrusion spray coatings



AAMA 2604-level performance in an ultra-durable, one-coat system

Based on an ultra-durable polyester formulation proven under more than a decade of South Florida exposure testing, *Durastar* aluminum extrusion spray coatings by PPG enable high-performance window, door and building products manufacturers to upgrade from AAMA 2603 to AAMA 2604-level weathering performance without a premium cost investment. This product was designed to be applied directly to metal in one coat on properly cleaned and pretreated surfaces, delivering excellent chalk, fade and UV resistance. Its easy-to-apply formulation has lower VOCs and lower HAPs than 50% PVDF systems used for aluminum extrusions.

Durastar coatings pass AAMA 2604 standards for corrosion resistance, color fastness and durability to high-end, aluminum-extrusion building products and components, including those used in high-traffic areas. The coatings deliver exceptional hardness, scratch resistance and mar resistance in one coat or can be applied over primer to provide enhanced performance in seacoast environments. The result is exceptional substrate protection at a cost that is competitive with AAMA 2603-level coatings.

The PPG Benefit

- Excellent UV, chalk and fade resistance
- Exceptional hardness and scratch resistance
- One-coat, primer-free, DTM application that may lower material and labor costs
- Smooth, finished appearance
- Broad range of glosses and solid colors
- Lower film build with enhanced flexibility
- Low VOC content (<3.0 lbs./gal.)
- Low HAPs content (<0.1 lb./gal.)

Segments

Building Products

Suggested End Uses

Condominiums

High-Traffic Areas

Storefronts

Schools

Hospitals

Specifications

AAMA 2604





Specifications	Test Standard	Results
Dry Film Thickness	ASTM D1400	1.0 – 1.2 mils color topcoat
Gloss	ASTM D523 @ 60°	High, medium and low gloss
Pencil Hardness	ASTM D3363	H – 2 H
Cross Hatch Adhesion (Dry, Wet, & Boiling Water)	1/16" grid	Pass – no removal of film under tape
Direct Impact	3 mm distortion	Pass – no removal of film from substrate
Abrasion Resistance (Falling Sand)	ASTM D968	Pass – abrasion coefficient > 20 liters/mil
Salt Spray Resistance	ASTM B117, 3,000 hrs. 5% NaCl @100° F (38° C)	Meets or exceeds 1/16" maximum undercutting
Humidity Resistance	ASTM D714 ASTM D2247, 3,000 hrs. 100% relative humidity @ 100° F (38° C)	Meets or exceeds specification of few #8 blisters maximum
Exterior Exposure ¹ (5 Years @ 45° South Florida)	ASTM D3344 / ASTM D4214 Film integrity Gloss retention	Maximum 5 fade / minimum 8 chalk Very good > 30%
Acid Resistance	ASTM D1308 10% muriatic acid spot test	Pass – no blistering or no visual change
Alkali Resistance	Mortar pat test 100% relative humidity @ 100° F (38° C)	Pass – no adhesion loss or visual change
Detergent Resistance	3% immersion @ 100° F (38° C)	Pass – no adhesion loss, no blistering and no visual change
Nitric Acid Resistance	AAMA 2604-13 procedure 8.7.3	Pass – < 5 ΔE color change
Window Cleaner Resistance	AAMA 2604-13 procedure 8.7.5	Pass – no blistering or noticeable appearance change

¹ Based on exposure of resin binder system applied via a coil application method.

