



Film Characteristics and Properties of Duranar[®] Coatings

Film Characteristics	AAMA 2605 ^① Paragraph Number and Performance Requirements	Duranar, Duranar XL, Duranar XL/BC & Duranar Sunstorm Coating Perform.
Colors Available		White, Black, range of selected colors and polychromatics <i>Duranar XL</i> - Polychromatics, metallics, bright colors
Dry Film Thickness	4.3 1.2 mils minimum (2 coats)	<i>Duranar, Duranar Sunstorm</i> 0.25 ± 0.05 mil primer coat; 1.0 mil min. color coat
	1.6 mils minimum (3 coats)	<i>Duranar XL</i> 0.25 ± 0.05 mil primer coat; 1.0 mil min. color coat; 0.6 ± 0.2 mil clear top coat
	2.6 mils minimum (4 coats)	<i>Duranar XL/BC</i> 0.25 ± 0.05 mil primer coat; 1.0 mil min. barrier coat; 1.0 mil min. color coat; 0.6 ± 0.2 mil clear top coat
Color Uniformity	7.1 Visually controlled	Color instrumentally and/or visually controlled
60° Gloss, ASTM D-523 ^②	7.2 High, medium and low	Medium gloss (25-35) <i>Duranar XL</i> - Medium gloss (30-40)
Hardness-Berol Eagle Turquoise Pencil	7.3 F minimum	Meets or exceeds spec.
Adhesion-Crosshatch 1/16" Wet and Dry	7.4 No removal	Excellent - no removal
Direct Impact 1/10" Distortion	7.5 No removal	Excellent - no removal
Abrasion Resistance ASTM D-968	7.6 Abrasion Coefficient Value 40 min.	Meets or exceeds spec.
Acid Resistance 10% Muriatic Acid Spot Test	7.7 15 minutes - no attack	Meets or exceeds spec.
Alkali Resistance Mortar Pat Test	7.7 24 hours - no attack	Meets or exceeds spec.
Detergent Resistance (3%) Immersion @ 100°F	7.7 72 hours - no attack	Meets or exceeds spec.
Resistance to Acid Pollutants	7.7 Max. 5ΔE Units (Hunter) Color Change	Meets or exceeds spec.
Salt Spray Resistance 5% Salt @ 100°F	7.8 1/16" max. undercutting 4000 hours exposure	Meets or exceeds spec.
Humidity Resistance 100% RH @ 100°F	7.8 Few #8 blisters max. 4000 hours exposure	Meets or exceeds spec.
Weathering - Color Retention ASTM D-2244	7.9 Max. 5ΔE Units (Hunter) Color Change 10 yrs., 45° South Florida	Meets or exceeds spec.
Chalk Resistance ASTM D-4214	7.9 Max. Rating 8, 10 yrs., 45° South Florida	Meets or exceeds spec.
Erosion	7.9 Max. 10% loss - 10 yrs. 45° S. Florida	Excellent-meets/exceeds spec.
Compatibility with Commercial Sealants and Glazing Putties	Consult sealant manufacturer for recommendations	

^① American Architectural Manufacturers Association, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels." Publication No. AAMA 2605.

^② American Society for Testing and Materials.