



EXCEPTIONAL DURABILITY

The Sherwin-Williams Acroflur® coating system is an ideal choice for public areas that receive heavy wear and tear. As part of our industry-leading family of PVDF-based coatings, Acroflur meets AAMA 2604 and is a 50% PVDF fluoropolymer product. Acroflur is combined with the hardness of acrylic, making it much harder and more scratch-resistant than traditional fluoropolymer systems.

Built on a two-coat formula, Acroflur's enhanced hardness not only resists daily public contact, but also protects against damage and reduces the amount of touchup required after fabrication, transportation, on-site storage, and building erection. It offers ease of maintenance, long-term color retention, and chalk resistance, plus it withstands intense sunlight, extreme temperatures, and atmospheric pollutants.

BENEFITS

- Exceptional durability
- Outstanding resistance to ultraviolet rays
- Excellent overall adhesion

COLORS

Acroflur® coatings are available in a variety of solid colors including standard colors, custom earth tones, and pastels.

SUBSTRATES

May be applied to pretreated aluminum panels and extrusions

END USES

The additional hardness of this 50% PVDF system makes it ideal for today's architectural market, which includes:

- Educational facilities
- Airports
- Hospitals
- Prisons
- Public buildings
- High-traffic, non-monumental structures



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Coil Coatings

extrusion.sherwin.com or call (866) 351-6900

50% PVDF EXTRUSION COATING SYSTEM

Number of Coats	Dry Film Thickness (DFT)		Total DFT	Specular Gloss 60°
	Meet or exceed 1.2 mils total			+/-5 units of manufacturer's specification
	Primer	Color Coat		
2-Coat	0.2-0.4 mils	1.0-1.3 mils	1.2-1.7 mils	Standard: 20-40

ACROFLUR® PERFORMANCE TESTING

Industry Specifications Compliance	AAMA 2604-17 Requirements	Voluntary Specification, Performance Requirements, and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels
Substrates	Pretreated aluminum panels and extrusions	—

PHYSICAL TESTING

ASTM¹ TEST METHOD

AAMA² 2604-17 REQUIRED TEST RESULT

Falling Sand Abrasion	ASTM D968	Minimum 20 liters of sand per mil of coating
Film Adhesion (Dry, Wet, Boiling Water)	ASTM D3359	No removal of film under tape in the cross-hatched area
Surface Burning Characteristics	ASTM E84	Flame Spread Index: Class A. Smoke Developed Index: Class A
Humidity Resistance	ASTM D2247: 100% Relative Humidity at 100° F for 4,000 hours ASTM D2247, ASTM D714	Rating 8: No more than "Few" field blisters at 3,000 hours, 100% Humidity, 100° F
Impact Resistance	ASTM D2794	Direct impact minimum deformation 3 mm +/- 0.3 mm - No removal of film from substrate
Pencil Hardness	ASTM D3363	F Minimum, Berol Eagle Turquoise
Corrosion	ASTM B117: 3,000 hours	Creep from scribe or edge no more than 1/16th inch (2mm) Rating 7: Field Blister Rating: 8
Chemical Resistance	Mortar Resistance (ASTM C207), Muratic Acid (AAMA 2604-17 Sec. 8.7.1), Nitric Acid (ASTM D2244), Detergent Resistance (ASTM D2248), and Window Cleaner (AAMA 2604-17 Sec. 8.7.5)	No loss of adhesion, blistering, or visually apparent change after exposure

SOUTH FLORIDA EXPOSURE TESTING

ASTM TEST METHOD

AAMA 2604-17 REQUIRED TEST RESULT

Atmospheric Environmental Exposure Testing of Non-Metallic Materials	ASTM G7	45 degree southern exposure for panel racking
Color	ASTM D2244	No more than 5Δ Hunter units at 5 years
Chalk	ASTM D4214	Number 8 rating at 5 years
Gloss Retention	ASTM D523	30% minimum gloss retention at 5 years
Erosion Resistance	AAMA 2604-17 Sec 8.9.1.5	10% minimum film loss at 5 years

¹American Society for Testing and Materials

²American Architectural Manufacturers Association's

For details and health, safety, and handling information, Material Safety Data Sheets (MSDS) are available at coil.sherwin.com. Acroflur® is a registered trademark of Sherwin-Williams.

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