



ENHANCED RESISTANCE

Fluoropon® Extreme offers enhanced resistance to the kinds of abrasions that can occur before pre-painted metal panels are installed—the inevitable wear and tear that occurs during forming, on the dock, on the road, job site and during installation. Designed to hold its smooth, low-gloss finish from start to finish.

DELIVERING EXTREME PROTECTION

We use a development process like the one which lead to WeatherXL™. We leveraged the science of tribology—the study of how surfaces interact in relative motion—to address the particular stress most likely to damage a panel between the fabricator and the finished building: abrasion.

THE BRAND YOU KNOW AND TRUST

Fluoropon Extreme delivers the same advantages of all the Fluoropon family 70% PVDF coatings. Field- and time-proven, they meet or exceed the rigorous ASTM performance criteria, depending on color.

BENEFITS

- Superior damage resistance
- Smooth, low-gloss finish to minimize imperfections
- Exceptional resistance to ultraviolet rays
- Outstanding color retention and consistency
- Excellent overall adhesion
- Great flexibility and formability
- High film integrity

COLORS AND LOW GLOSS

Our Fluoropon Extreme systems are available in a wide range of colors and low gloss (8-15) to achieve nearly any look you can dream up.

SUBSTRATES

Fluoropon Extreme can be applied to a number of pretreated substrates including: Galvalume®, aluminum and Hot-Dipped Galvanized (HDG) steel.

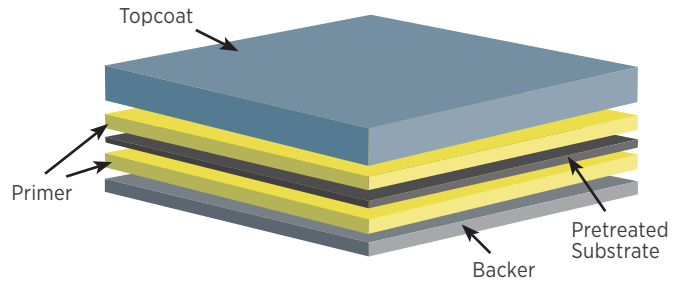
END USES

Fluoropon Extreme is ideal for external use on monumental, commercial, residential structures and pre-engineered buildings, including:

- Architectural and residential metal roofing systems
- Composite and insulated metal wall panel systems

COMMITMENT TO QUALITY

Our coatings are trusted and field-proven through rigorous testing, providing key benefits to our customers.



70% PVDF COIL COATING SYSTEM

Number of Coats	Dry Film Thickness (DFT)		Total Topside DFT:	Backer
	Primer	Topcoat		
2-Coat	0.2-0.3 mils	0.7-0.8 mils	0.9-1.1 mils	0.3-0.4 mils

FLUROPON® EXTREME PERFORMANCE TESTING

Industry Specifications Compliance	AAMA ¹ 2605-17A Requirements	Voluntary Specification, Performance Requirements and Test Procedures for High-Performing Organic Coatings on Architectural Aluminum Extrusions and Panels
Substrates	Pretreated Galvalume, Hot-Dipped Galvanized (HDG) steel and aluminium	

PHYSICAL TESTING	ASTM ² TEST METHOD	AAMA ¹ 2605-17A REQUIRED TEST RESULT
Falling Sand Abrasion	ASTM D 968	65 ± 10 liters
Film Adhesion	ASTM D 3359	No removal of film under tape in the cross-hatched area. (Dry, Wet, Boiling Water)
Surface Burning Characteristics	ASTM E 84	Flame Spread Index: Class A. Smoke Developed Index: Class A.
Graffiti Resistance	ASTM D 6578/D 6578M	Meets and exceeds
Humidity Resistance	ASTM D 2247: 100% RH at 100° F for 2,000 hours 100% RH at 100° F for 3,000 hours	Galvalume or HDG: No field blisters Aluminum: No field blisters
Impact Resistance (direct)	ASTM D 2794	Galvalume or HDG: 3x metal thickness inch-pound, no loss of adhesion Aluminum: 1.5x metal thickness inch-pounds, no loss of adhesion
Pencil Hardness	ASTM D 3363	HB to 2H.
Salt Spray	ASTM B 117: 1,000 Hours 3,000 Hours	Galvalume or HDG: Creep from scribe ≤ 1/16" (2mm), no field blisters. Aluminum: Creep from scribe ≤ 1/16" (2mm), no field blisters.
Specular Gloss 60°	ASTM D 523	8-15
T-Bends	ASTM D 4145 ³	1T-3T, no loss of adhesion.

SOUTH FLORIDA EXPOSURE TESTING 45 degree southern exposure for panel racking

Color	ASTM D 2244	No more than 5Δ Hunter units at 20 years.
Chalk	ASTM D 4214	Number 8 rating at 20 years.
Film Integrity	ASTM G 7	25 years.

¹American Architectural Manufacturers Association. ²American Society for Testing and Materials. ³Fluoropon is not designed to bridge cracks in the substrate. Fluoropon coatings will generally meet the requirements for most post-painted fabrication processes. However, variations in metal quality, thickness or cleaning/pretreatment applications can lead to diminished flexibility.

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

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