



FLUROTHANE® 70% PVDF COATINGS FROM SHERWIN-WILLIAMS

Sherwin-Williams is chosen more often than all of the other brands of PVDF-based coatings. Our Flurothane coil coating systems are one of the many reasons why. These systems include thick-film primers to give the metal underneath superb protection against the harshest industrial and architectural environments. In addition to ensuring a strong adhesion to the substrate, these thick primers also allow for superior adhesion of the topcoat, which provides even more protection of the base metal.

What's more, since each product consists of 70% polyvinylidene fluoride (PVDF) resins, they offer resistance to chemicals, acid rain, humidity and salt to help projects maintain their structural and visual beauty for years to come.

■ Flurothane II

A two-coat system for light industrial and general commercial projects, such as airports and military facilities, in tough environments that require additional thick-film protection.

■ Flurothane IV

With four tough coats, Flurothane IV offers even more protection for heavy industrial environments that have a lot of humidity and chemical interaction, such as chemical plants and water treatment plants.

■ Flurothane V

The thickest film for wherever there is a specific primer thickness requirement. Easy to apply and easy to maintain, this five-coat system takes on both natural and man-made elements like chemicals, corrosion, UV and sea salt.

■ Flurothane Special

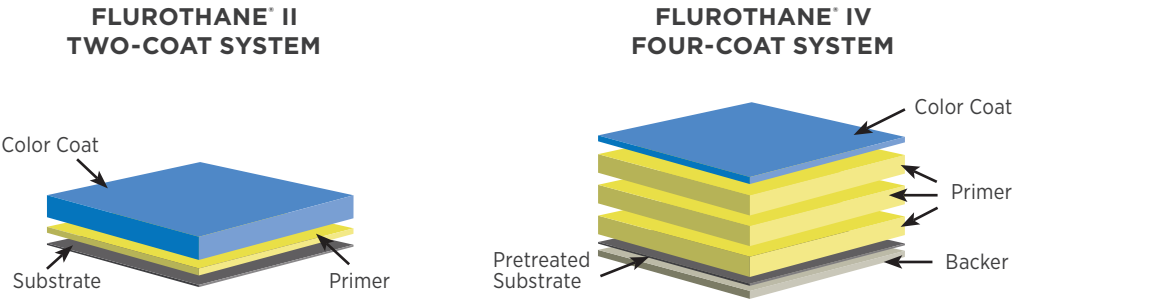
Flurothane II offers an additional clear coat for extra color protection. With three coats total, it also resists chemicals, corrosion, UV rays — all of which makes it ideal for weathering the harsh conditions found in coastal and industrial locales.

■ Flurothane Coastal

This two-coat system uses an innovative thick-film primer to thrive in the most severe coastal environments. If you're planning an industrial, commercial or architectural project within 1,500 feet of the sea, look to Flurothane Coastal to deliver long-lasting protection.

BENEFITS

- Exceptional resistance to sun, rain and other natural elements
 - Superior resistance to ultraviolet rays
 - Maximum abrasion and chemical resistance
 - Outstanding dirt, stain, scratch and chemical degradation resistance
- Tremendous UV protection
 - Excellent overall adhesion
 - Great flexibility and formability
 - Fights chalking, fading and chipping



COATING SYSTEM	Key Characteristics	Number of Coats	Dry Film Thickness (DFT): Topside			Total Topcoat DFT:	Backside	
			Primer	Color Coat	Clear Coat		Primer	Backer
FLUROTHANE® II	Light industrial and general commerical	2-Coat	0.8-1.2 mils	0.75 mils	—	1.55-1.95 mils	—	—
FLUROTHANE® IV	Heavy industrial environments	4-Coat	0.8-1.2 mils (x3)	0.75 mils	—	3.15-4.35 mils	—	0.3-0.4 mils
FLUROTHANE® V	Thickest film for specific primer requirements	5-Coat	0.8-1.2 mils (x4)	0.75 mils	—	3.95-5.55 mils	—	0.3-0.4 mils
FLUROTHANE® SPECIAL	Coastal and Industrial	3-Coat	0.8-0.9 mils	0.8-0.9 mils	0.8-0.9 mils	2.4-2.7 mils	—	0.3-0.4 mils
FLUROTHANE® COASTAL	Severe coastal environments	2-Coat	1.0-1.2 mils	0.7-0.8 mils	—	1.7-2.0 mils	0.4-0.5 mils	0.3-0.4 mils

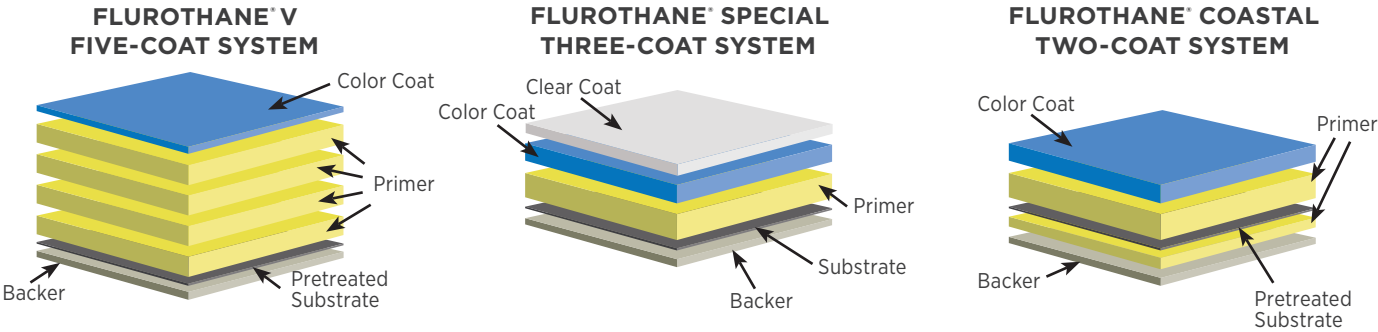
COLORS

Flurothane systems are available in a large variety of standard and custom colors, sheens, gloss levels and special effects to achieve nearly any look you can dream up.

END USES

Flurothane boasts many end uses across its entire product family. Those include but are not limited to:

- Metal roofing systems, wall covers, column covers and brake metal
- Power plants, chlorine rooms and sewer treatment facilities



FLUROPON PERFORMANCE TESTING

Industry Specifications Compliance	AAMA2605-17A Requirements	Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
Substrates	Pretreated substrates: Galvalume®, Hot-Dipped Galvanized (HDG) steel.and Aluminum	

PHYSICAL TESTING	ASTM TEST METHOD	AAMA 2605-17A REQUIRED TEST RESULT
Abrasion Resistance	ASTM D968	Flurothane II, IV, Special, Coastal: 100 ± 10 liters Flurothane V: 300 ± 50 liters
Cross Hatch Adhesion	ASTM D3359	Pass, no loss of adhesion
Flame Test	ASTM E84	Flame Test Index: Class A Coating
Graffiti Resistance	ASTM D6578/D6578M	Meets and exceeds
Humidity Resistance	ASTM D2247: 100% RH for 2,000 hours	Galvalume or HDG: No field blisters Aluminum: No field blisters
Impact Resistance (Direct)	ASTM D279 4	Galvalume or HDG: 3x metal thickness inch-pounds, no loss of adhesion. Aluminum: 1.5x metal thickness inch-pounds, no loss of adhesion.
Pencil Hardness	ASTM D3363	HB to 2H
Salt Spray	ASTM B117	Flurothane II, Coastal: 2,000 hours Galvalume or HDG: Creep from scribe ≤ 1/16" (2mm), no field blisters. Flurothane II, IV, Coastal: 4,000 hours Aluminum: No creep from scribe, no field blisters Flurothane V: 2,000 hours Galvalume or HDG: Creep from scribe no more than 1/32" (1 mm), no field blisters 4,000 hours Aluminum: Creep from scribe no more than 1/32" (1 mm), no field blisters. Flurothane Special: 2,000 hours Galvalume or HDG: Creep from scribe ≤ 1/8" (3mm), no more than a few #8 blisters. 4,000 hours Aluminum: Creep from scribe ≤ 1/16" (2mm), no more than a few #8 blisters.
Specular Gloss 60°	ASTM D523	5-35
T-Bends	ASTM D4145³	1T-3T minimum, no loss of adhesion

SOUTH FLORIDA EXPOSURE TESTING	ASTM TEST METHOD	AAMA 2605-17A REQUIRED TEST RESULT
Color	ASTM D2244	No more than 5Δ Hunter units at 20 years.
Chalk	ASTM D4214	Rating no less than 8 at 20 years.
Film Integrity	ASTM G7	Flurothane II, IV, V, Special: No loss of adhesion at 25 years Flurothane Coastal: No loss of adhesion at 20 years

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

¹American Architectural Manufacturers Association. ²American Society for Testing and Materials. ³Flurothane is not designed to bridge cracks in the substrate. Fluropon 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.

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DO YOU HAVE A **UNIQUE** APPLICATION?

We'll work with you to find a solution. Want a unique color? We'll create it for you. Need a quick turnaround? Talk to us, and we'll help you get your project completed on time.

WE'RE HERE TO HELP

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