



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.

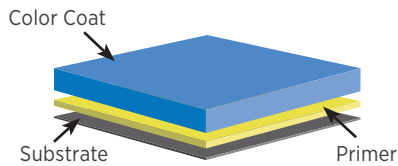


SHERWIN-WILLIAMS
Coil Coatings

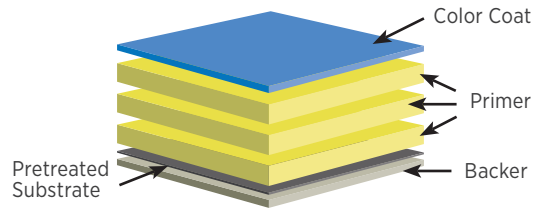
BENEFITS

- 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

FLUROTHANE® II TWO-COAT SYSTEM



FLUROTHANE® IV FOUR-COAT SYSTEM



| 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 commercial | 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 |

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/pre-treatment applications can lead to diminished flexibility.

Sherwin-Williams makes no warranties, expressed or implied, and disclaims all implied warranties including warranties of merchantability or fitness for a particular use. Sherwin-Williams will not be liable for any special, incidental or consequential damages. © 2018 Sherwin-Williams. All Rights Reserved.



SHERWIN-WILLIAMS
Coil Coatings

COLORS

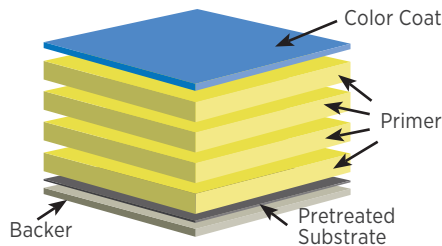
Flurothane systems are available in a large variety of standard and custom colors, sheens, gloss levels and special effects to achieve nearly any look you can dream up.

END USES

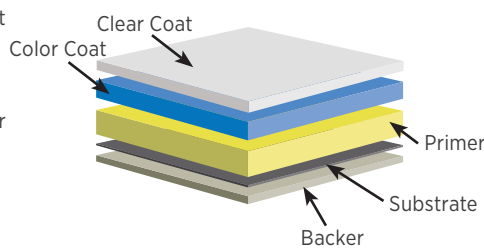
Flurothane boasts many end uses across its entire product family. Those include but are not limited to:

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

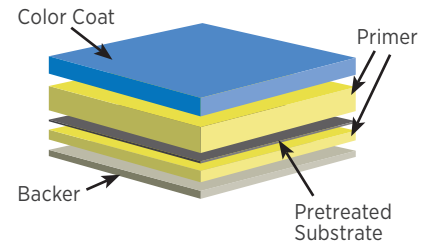
FLUROTHANE® V FIVE-COAT SYSTEM



FLUROTHANE® SPECIAL THREE-COAT SYSTEM



FLUROTHANE® COASTAL FIVE-COAT SYSTEM



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 D4145 ³ | 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 |



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

Give us a call and see how we can help with your next project.

coil.sherwin.com

coilhelp@sherwin.com

(888) 306-2645



SHERWIN-WILLIAMS.
Coil Coatings