

FLUROPON® Coil Coating System

Fluropon® PVDF 100% trusted

Fluropon coatings are premium fluoropolymer system containing 70% Polyvinylidene Fluoride (PVDF) proprietary resins. Fluropon coatings are field-proven, high performance exterior finishes. They provide outstanding resistance to ultraviolet rays, exceptional color retention and resistance to chalking and chemical degradation.

Benefits

Fluropon coatings provide a number of unique benefits including:

- Exceptional dirt and stain resistance
- Outstanding color consistency
- Excellent overall adhesion
- Great flexibility and formability

Colors

Fluropon coatings are available in a wide variety of colors including standard and custom earth tones, pastels and exotic colors. Fluropon coatings are also available in energy efficient Solar Reflective (SR) formulations.

Substrates

Fluropon coatings can be applied to a number of substrates:

- Hot-Dip Galvanized (HDG)
- Galvalume®
- Aluminum



End Uses:

Fluropon coatings are ideal for long-life external use on monumental high-rise structures and pre-engineered buildings, including:

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

TECHNICAL DATA

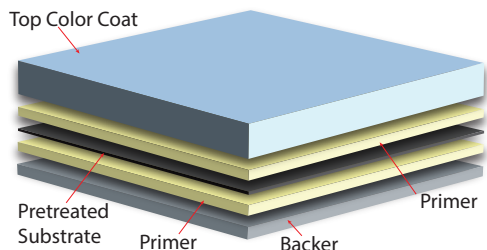
Specular Gloss at 60° ASTM D 523 ²	Typical: 20-35
Pencil Hardness ASTM D 3363	HB to 2H
T-Bend ASTM D 4145 ³	1T to 3T ³ with no loss of adhesion
Cross Hatch Adhesion ASTM D 3359	No loss of adhesion
Reverse Impact ASTM D 2794 ³	Galvalume® or HDG: 2x' metal thickness inch-pounds, no loss of adhesion Aluminum: 1.5x metal thickness inch-pounds, no loss of adhesion
Humidity Resistance 100% RH 2,000 Hours ASTM D 2247 100% RH 3,000 Hours ASTM D 2247	Galvalume® or HDG: No field blisters Aluminum: No field blisters
Salt Spray Resistance 1,000 Hours ASTM B 117 3,000 Hours ASTM B 117	Galvalume® or HDG: Creep from scribe no more than 1/16" (2mm), no field blisters Aluminum: Creep from scribe no more than 1/16" (2mm), no field blisters
South Florida Exposure ASTM D 2244 ASTM D 4214	Color: No more than 5Δ Hunter units at 20 years Chalk: Rating no less than 8 at 20 years Film integrity: 20 years
Flame Test ASTM E 84	Class A coating
Water Immersion: 500° hours 100 F ASTM D 870	No loss of adhesion
Abrasion Resistance: ASTM D 968	65 ± 10 liters

APPLICATION CHARACTERISTICS

Application Method	Reverse roll coat
Substrate ¹	Aluminum, HDG or Galvalume®
Viscosity ASTM D 4212 (No. 4 Zahn cup)	20 to 35 seconds
Weight per Gallon ASTM D 1475	10.0 to 12.0 pounds per gallon ⁴
Solids per Volume ASTM D 2697	36 to 42% ⁴
Solids per Weight ASTM D 2369	52 to 56% ⁴
Reducing Thinner	Glycol Ether Acetate or Isophorone
VOC (Theoretical) ASTM D 3960	4.4 to 4.8 pounds per gallon ⁴
Clean-Up Solvent	Aromatic Ketone blend
Peak Metal Temperature	460° to 490 °F
Flash Point: ASTM D 3278	83° F
Contains Lubricant	Yes
MEK Double Rubs ASTM D 5402	100 Plus

FLUROPON® COATING SYSTEM

Fluropon is a two coat PVDF resin system with a total Dry Film Thickness (DFT) of 0.9 to 1.1 mils.



Top coat: 0.7 to 0.8 mils Primer: 0.2 to 0.3 mils
Backer: 0.3 to 0.4 mils

(1) All substrates must be properly pretreated. (2) American Society for Testing and Materials. (3) Fluropon is not designed to bridge cracks in the substrate. (4) Varies by color. (5) 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.

For details and health, safety and handling information, Material Safety Data Sheets (MSDS) are available at www.valsparcoilextrusion.com.

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Valspar Coil and Extrusion Coating Division
Phone: 888-306-2645
Email: coilhelp@valspar.com
www.valsparcoilextrusion.com

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