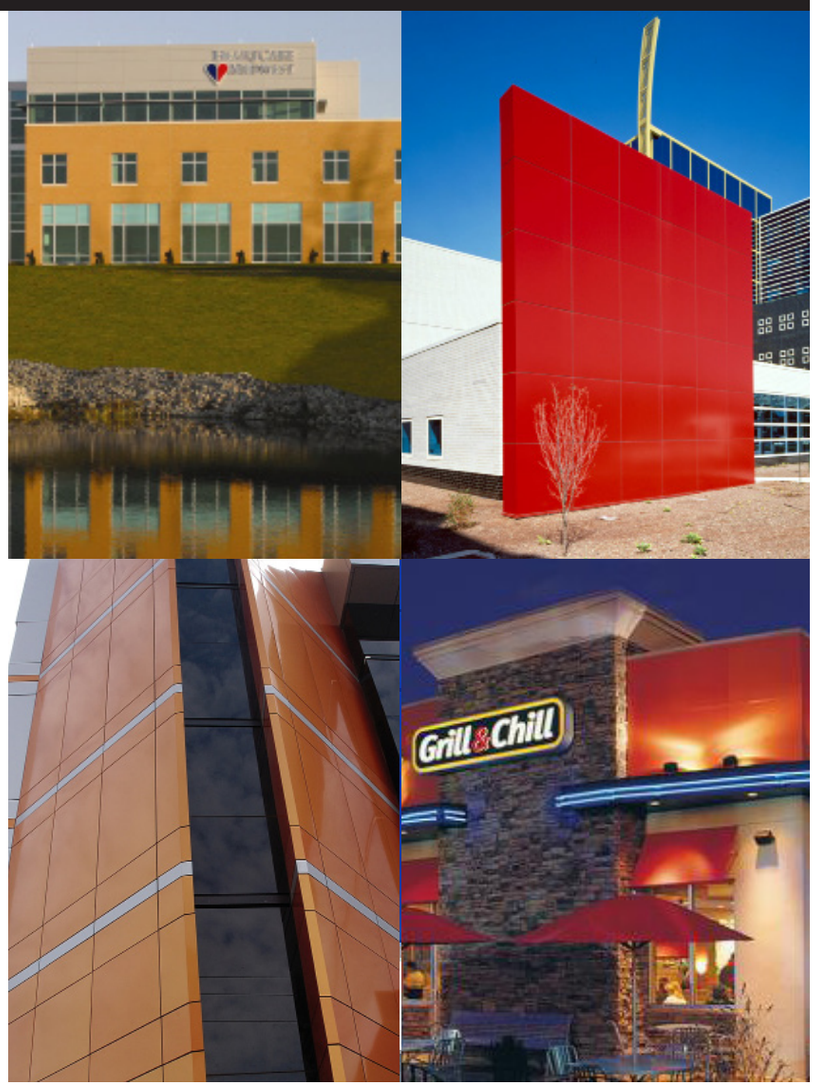
valspar

if it matters, we're on it.®

VALFLON® Coil Coating System

Brilliant and vivid colors



Valflon® coatings are a durable FEVE fluoropolymer based resins that create a distinguished appearance without sacrificing performance. Valflon coatings provide superior protection against weathering, chalking and fading. These high performance systems are resistant to airborne chemicals, acid rain, and most cleaning solvents used to remove graffiti. Valflon coatings are available in two and three coat systems and can be formulated to high gloss levels up to 80. Valflon coatings provide bright and vibrant eye-catching appeal and are ideal for retail buildings such as restaurant establishments and service stations, and buildings that need to display corporate logos, school colors.

Benefits

Valflon coatings provide a number of unique benefits including:

- Outstanding color consistency
- Protection against weathering, chalking and fading
- Exceptional resistance to air-borne chemicals, acid rain, and cleaning solvents
- Excellent overall adhesion
- Great flexibility and formability

Colors

In addition to exotic vivid colors, Valflon coatings are also available in a wide variety of colors including standard earth tones, pastels, and pearlescents.

Substrates

Valflon can be applied to a variety of substrates:

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

End Uses:

Valflon coatings are ideal for long-life external use on projects that need to portray bright vivid colors including:

- Architectural and residential metal roofing systems
- Composite and insulated metal wall panel systems
- Metal roofing and wall panels systems
- Composite panels and column covers
- Restaurant establishments and service stations
- Canopies, doors and other exterior metal panel systems

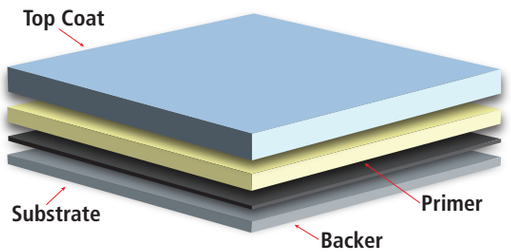
TO SPECIFY, WRITE: Factory applied, Valflon® coating system by Valspar, utilizing FEVE fluoropolymer resin.

VALFLON® Coil Coating System

DATA	PERFORMANCE SPECIFICATIONS	PRODUCT PERFORMANCE
TECHNICAL DATA	Specular Gloss at 60° ASTM D 523[2]	Typical: 30-80
	Pencil Hardness ASTM D 3363	F to H
	T-Bend ASTM D 4145[5]	2T with no cracking or loss of adhesion
	Cross Hatch Adhesion ASTM D 3359	No loss of adhesion
	Reverse Impact ASTM D 2794[5]	Aluminum: 1.5x metal thickness inch-pounds No loss of adhesion
	Humidity Resistance 100% RH 3,000 Hours ASTM D 2247	Aluminum: No field blisters
	Salt Spray Resistance 3,000 Hours ASTM B 117	Aluminum: Creep from scribe no more than 1/8" (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
	Dew Cycle Weatherometer 1000 hours ASTM D 3361	Color change: No more than 5Δ Hunter units Chalk: Rating no less than 8
	Abrasion Resistance: ASTM D 968, Method A	40 liters
APPLICATION	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	8.8 to 10.2 pounds per gallon[4]
	Solids per Volume ASTM D 2697	28 to 36%[4]
	Solids per Weight ASTM D 2369	38 to 51%[4]
	Reducing Thinner	Glycol Ether Acetate or Isophorone
	VOC (Theoretical) ASTM D 3960	4.9 to 5.5 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
	Acid Resistance ASTM D 1308 Procedure 7.2[4] 20% Hydrochloric Acid Solution 25% Sodium Hydroxide Solution	18 hour test: No visible change 1 hour test: No visible change

VALFLON® COATING SYSTEM

Valflon is a two or three coat PVDF resin system with a total Dry Film Thickness (DFT) of 1.1 to 1.4 mils.



Top coat: 0.7 to 0.9 mils Primer: 0.4 to 0.5 mils
Backer: 0.3 to 0.4 mils

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