



FOR A DURABLE PVC-TECHNOLOGY COATING, IT'S HARD TO BEAT VALSHIELD

from Sherwin-Williams, the most trusted brand of coatings for the construction market. Valshield is a two-coat system made of vinyl plastisol polyvinylchloride (PVC) that is chrome (VI) free, which creates a great barrier to corrosion, abuse and abrasion. As such, Valshield provides the protection needed for metal buildings exposed to acid rain in industrial or chemical environments. Additionally, Valshield may be formed onto building panels without the risk of micro-cracking along the panels' ribs.

BENEFITS

- Outstanding color consistency
- Superior abrasion and scratch resistance
- Great flexibility and formability
- Excellent overall adhesion

COLOR

Valshield is available in a variety of standard industry colors. Smooth and striated colors may be produced for metal building wall panels or roofing.

SUBSTRATES

May be applied on properly treated (Cr / Cr free pretreatments): aluminum, Galvalume®, and hot-dip galvanized (HDG) steel.

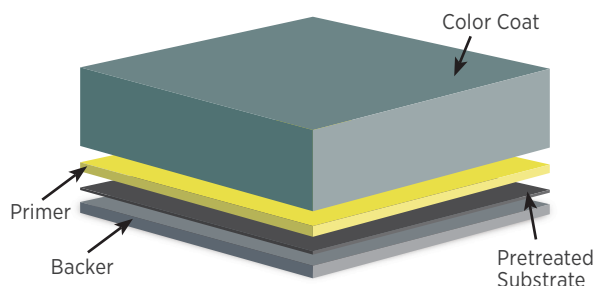
END USES

Valshield is ideal for applications that require chemical resistance, such as:

- Metal siding and trim coil
- Agricultural and industrial
- Animal confinement buildings

COMMITMENT TO QUALITY

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



PVC COIL COATING SYSTEM

Number of Coats	Dry Film Thickness (DFT)		Total Topside DFT:	
	*Total DFT varies depending on primer and color coat combinations.			
	Primer	Color Coat		Backer
2-Coat	0.1-0.2 mils	3.0-8.0 mils	3.0-8.0 mils	0.15-0.25 mils
Substrates	Pretreated (Cr / Cr free pretreatments): aluminum, Galvalume, and hot-dip galvanized (HDG) steel.			

PHYSICAL TESTING	ASTM ¹ TEST METHOD	PERFORMANCE TEST RESULT
Film Adhesion (Dry, Wet, Boiling Water)	ASTM D3359	No removal of film under tape in the cross-hatched area.
Humidity Resistance	ASTM D2247: 100% RH at 100° F 1,000 hours 2,000 hours	Galvalume and HDG: No field blisters Aluminum: No field blisters
Impact Resistance (direct)	ASTM D2794	HDG and Galvalume: 3x metal thickness inch-pounds, no loss of adhesion Aluminum: 1.5x metal thickness inch-pounds, no loss of adhesion
Pencil Hardness	ASTM D3363	B - H
Salt Spray	ASTM D1654 1,000 hours 2,000 hours	HDG and Galvalume: Creep from scribe no more than 1/16" (2mm), no blisters Aluminum: Creep from scribe no more than 1/16" (2 mm), no blisters
Specular Gloss 60°	ASTM D523	15-55
T-Bend	ASTM D4145 ²	OT-IT, no loss of adhesion

¹American Society for Testing and Materials. ²Valsheild is not designed to bridge cracks in the substrate. Valsheild 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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