



### END USES

Heavy film plastisol coil coating for use on building panels, siding trim, animal confinement buildings, and applications that require chemical resistance.



Valshield coating systems are based on high solids plastisol finished with PVC technology and a specially formulated corrosion resistant primer. Valshield gives aluminum, hot-dipped galvanized (HDG) steel, and zinc alloy substrates the extra corrosion resistance needed for metal buildings exposed to acid rain in industrial or chemical environments. It is a great product for animal confinement buildings.

Smooth, striated, or textured colors can be produced for metal building wall panels or roofing.

Valshield coil coatings are designed to resist abrasion and protect against common physical abuse caused during transportation and installation. Valshield may be formed into building panels without micro-cracking on the ribs.

Note: Protective strippable coatings may cause increased gloss level; therefore, are not recommended for surface protection on this product.

SUBSTRATE		PRIMER
HDG Steel, Galfan®, Aluminum, or Galvalume®		Primer (561Y007)
All substrates must be properly cleaned and pretreated.		
FIELD PERFORMANCE – Florida Exposure South of Latitude 27 Degrees		
	Vertical (90° Angle)	Non-vertical (Angle >15° vertical)
Film Integrity	15 Yrs: no blistering, peeling, cracking	10 Yrs: no blistering, peeling, cracking
Chalk Resistance: ASTM D659	10 Yrs: rating no less than No. 8	10 Yrs: rating no less than No. 6
Color Change: ASTM D 2244	10 Yrs: no more than 6ΔE (Hunter) units	10 Yrs: no more than 8ΔE (Hunter) units

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. **UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.



<b>APPLICATION CHARACTERISTICS</b>	
Application Method:	Reverse roll coat
Viscosity: ASTM D 4212	Varies depending on finish desired
Solids by Volume: ASTM D 2697*	78% to 85%
Solids by Weight: ASTM D 2369*	85% to 95%
Reducing Thinner:	Aromatic
Clean-Up Solvent:	Aromatic
Peak Metal Temperature:	400°F to 420°F
VOC (Theoretical): ASTM D 3960*	Less than 1 pound per gallon
Flash Point: ASTM D 3278*	141°F
Contains Lubricant:	Yes
Top-Coat Dry Film Thickness:	2.0 to 10.0 mils
System Dry Film Thickness:	2.1 to 10.2 mils total
<b>PHYSICAL PROPERTIES</b>	
Gloss (60°): ASTM D 523	15 to 70
Pencil Hardness: ASTM D 3363	B to H
T-Bend:	0T to 1T, no loss of adhesion
Cross Hatch Adhesion:	No loss of adhesion
Reverse Impact: ASTM D 2794	HDG/Galvalume: 4x metal thickness in inch-lbs., no loss of adhesion Aluminum: 2x metal thickness in inch-pounds, no loss of adhesion
<b>ACCELERATED TEST DATA</b>	
Salt Spray 1,500 Hours: ASTM B117	HDG/Galvalume®: creep from scribe no more than 1/16" (2 mm), no blisters
Salt Spray 2,000 Hours: ASTM B117	Aluminum: creep from scribe no more than 1/16" (2mm), no blisters
Dry Heat 168 Hours, 180°F (82°C): (2T Bend)	No loss of adhesion
Humidity 100% RH 1,000 Hours: ASTM D 2247	HDG/Galvalume®: no field blisters
Humidity 100% RH 2,000 Hours: ASTM D 2247	Aluminum: no field blisters
Water Immersion 168 Hours 100°F (82°C): ASTM D 870	No field blisters with minimum color change
XWR Weatherometer 2000 Total Hours: ASTM D 3361	Color change: maximum of 6ΔE (Hunter) Units Chalk: rating no less than No. 7
Chemical Resistance 24 Hours: ASTM D 1308	
10% Hydrochloric Acid	Slight stain, no blisters
20% Sulfuric Acid	No visible change
10% Sodium Hydroxide	Slight stain, no blisters
28% Ammonium Hydroxide	No visible change

*\*These numbers are to be used as a general indication of field performance. Field performance may vary with color and gloss. For details on health, safety and handling information, Material Safety Data sheets are available at [www.paintandcolor.com](http://www.paintandcolor.com).*

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