

WEATHERX® Coil Coating System

Industry leading weather resistant silicone-modified polyester

Valspar's WeatherX® coating is a unique silicone-modified polyester (SMP) resin system for pre-painted metal products designed especially for residential, agricultural and commercial construction industries. This two-coat system has proven durability and is highly resistant to stains, abrasions and metal marking. These outstanding features allow the product to endure the physical stresses of fabrication, transit and construction with minimal cracking and marring. The combination of ceramic, inorganic pigments and other enhancements make WeatherX the most durable SMP coatings on the market. WeatherX is recognized for its superior weatherability, remarkable color and gloss retention, as well as superior chalk resistance.

Benefits

WeatherX coatings provide a number of unique benefits including:

- Superior weatherability
- Remarkable color and gloss retention
- Outstanding color consistency
- Proven durability

Colors

WeatherX coatings are available in a wide palette of colors from bright white to jet black many of which are available in Solar Reflective (SR) formulations to meet ENERGY STAR® and LEED qualifications.



Substrates

WeatherX coatings can be applied to a number of pre-treated substrates:

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

End Uses:

WeatherX coatings are ideal for residential and commercial building products including:

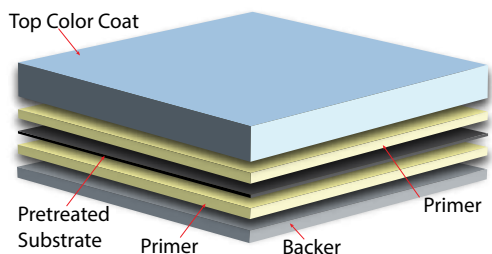
- Commercial and residential metal roofing
- Agricultural and industrial metal building components
- Metal wall panels
- Pre-engineered metal building systems
- Siding, gutters and downspouts

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| DATA | PERFORMANCE SPECIFICATIONS | PRODUCT PERFORMANCE |
|----------------|---|---|
| TECHNICAL DATA | Specular Gloss at 60° ASTM D 523 ² | 20 to 80 |
| | Pencil Hardness ASTM D 3363 | F to 2H |
| | T-Bend ASTM D 4145 ³ | 2T to 4T 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: 3x metal thickness inch-pounds, no loss of adhesion Aluminum: 1.5x metal thickness inch-pounds, no loss of adhesion |
| | Humidity Resistance 100% RH 1,000 Hours ASTM D 2247 100% RH 2,000 Hours ASTM D 2247 | Galvalume® or HDG: No field blisters Aluminum: No field blisters |
| | Salt Spray Resistance 1,000 Hours ASTM B 117 2,000 Hours ASTM B 117 | Galvalume® or HDG: Creep from scribe ≤ 1/8 inch (3mm), none or few #8 blisters Aluminum: Creep from scribe ≤ 1/8 inch (3mm), few #8 blisters |
| | South Florida Exposure ASTM D 2244 ASTM D 659 ⁴ | Color: No more than 5ΔE Hunter units at 90° vertical angle and 6ΔE nonvertical at 20 yrs Chalk: Rating no less than 8 at 90° angle and 7 at non vertical angle at 20 yrs Film Integrity: 25 years, no blisters, peeling or cracking |
| | Water Immersion 100° F 168 Hours ASTM D 870 | No field blisters with minimal color change |
| | Dew Cycle Weatherometer 200 Total Hours ASTM D 3361 | Color: No More than 5ΔE hunter units Chalk: Rating no less than 8 |
| | Abrasion Resistance: ASTM D 968 | Total sand = 35 ± 5 liters |
| | APPLICATION | Application Method |
| | Substrate ¹ | Aluminum, HDG or Galvalume® |
| | Dry Film Thickness ASTM D 4138 | Top coat: 0.7 to 0.8 mils Primer: 0.2 to 0.3 mils Total system: 0.9 to 1.1 mils |
| | Viscosity ASTM D 4212 (No. 4 Zahn cup) | 25 to 45 seconds |
| | Weight per Gallon ASTM D 1475 | 9.0 to 12.0 pounds per gallon |
| | Solids per Volume ASTM D 2697 | 48 to 60% ⁴ |
| | Solids per Weight ASTM D 2369 | 65 to 75% ⁴ |
| | Reducing Thinner | Glycol Ether Acetate |
| | VOC (Theoretical) ASTM D 3960 | 3.0 to 4.0 pounds per gallon ⁵ |
| | Clean-Up Solvent | Aromatic |
| | Peak Metal Temperature | 420° to 450° F |
| | Contains Lubricant | Yes |
| | MEK Double Rubs ASTM D 5402 | 150 Plus |

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WeatherX is a two coat SMP 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: 0.2 to 0.3 mils

(1) All substrates must be properly pretreated. (2) American Society for Testing and Materials. (3) WeatherX is not designed to bridge cracks in the substrate. (4) Varies by color. (5) WeatherX 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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VAL5500C 2012-08
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