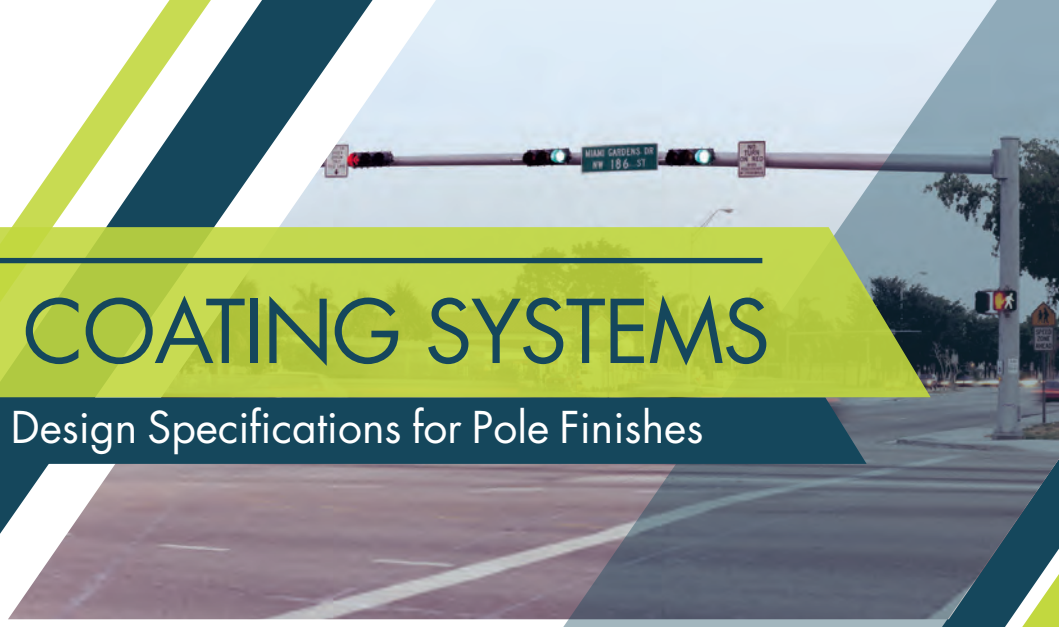
STEEL FINISH COATING SYSTEMS

Meeting Steel Design Specifications for Pole Finishes

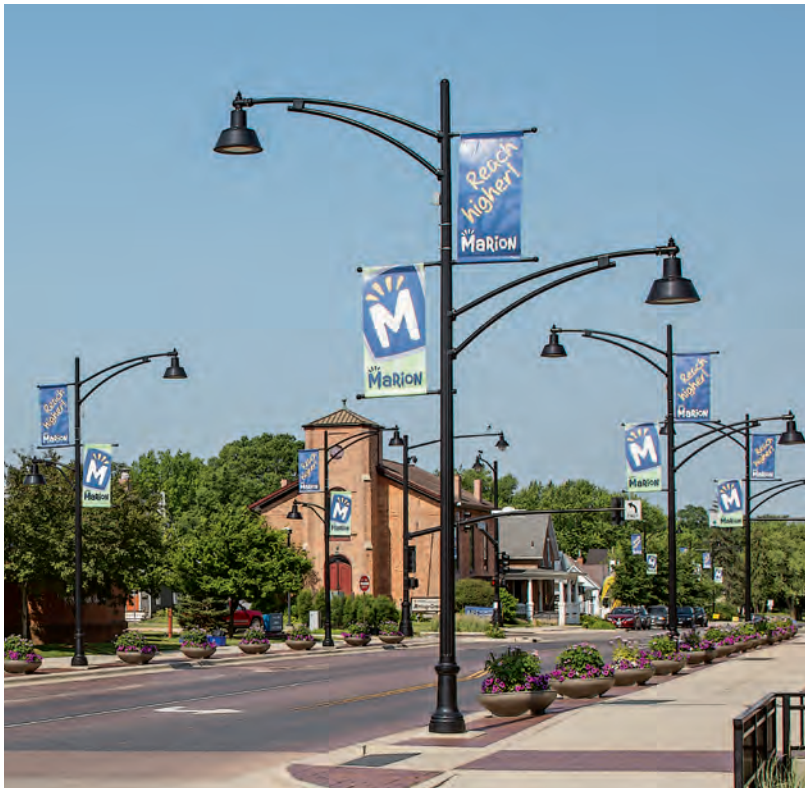


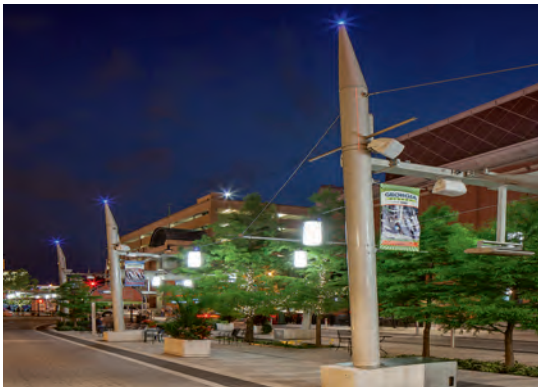
valmont®
STRUCTURES

delivering diverse resources

We provide the highest level of service

THE VALMONT PROMISE



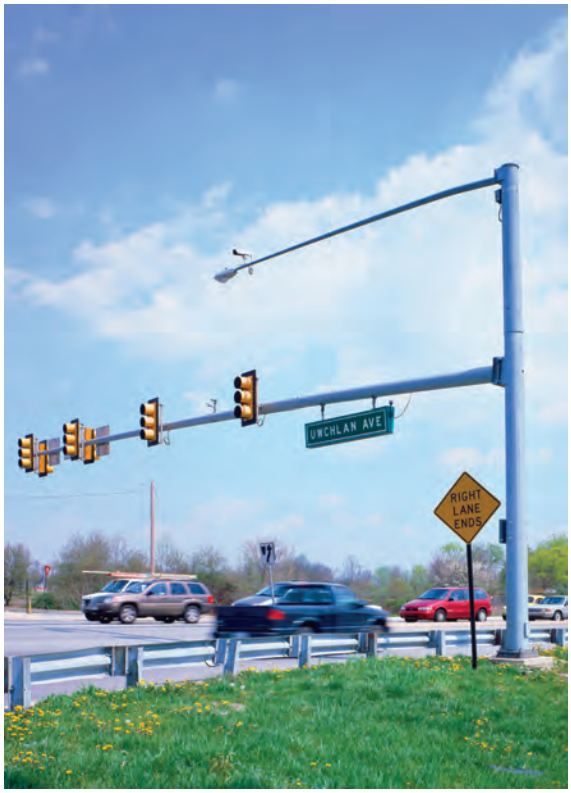


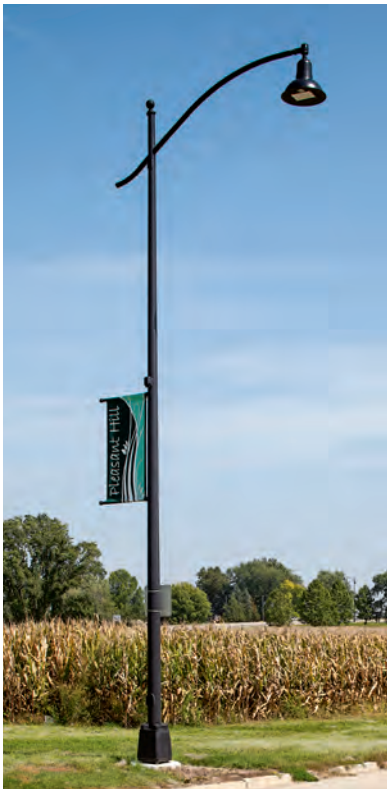
Valmont's structures touch millions of lives around the world, day and night. From stop lights to street lamps, communication towers to utility poles, we provide a sense of safety and connectedness people depend on.

Our extensive in-house capabilities, combined with our complete line of engineering and inspection services, allow for superior quality control and the best lead times in the industry.

Valmont demonstrates responsibility at every stage of the process. Our recycling capabilities ensure we reuse 100% of steel, aluminum, and composite materials, as well as the zinc used during galvanizing.

VALMONT STEEL FINISHES





Valmont Structures offers an assortment of pole finish colors to meet your design specifications. Our durable and attractive colors are chemical, corrosion and abrasion resistant to extend the life of any structure.

For more than 50 years, Valmont has offered steel and aluminum structures to enhance city streetscapes, town centers, parks and residential areas with decorative and standard designs. As industry experts, we make finish recommendations based on your environment and performance expectations, along with many other variables. It is our knowledgeable personnel and factual data and analysis that set us apart from the competition. Enhance your pole's aesthetic appeal by selecting one of our bold colors for emphasis or a subtle color to blend into the environment. Or if a custom color is what you're looking for, please contact our factory for more information.

Valmont Structures - your durable, long lasting choice for steel pole finishes.

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FINISH COLOR OPTIONS

GALVANIZED

Galvanize GV

SAMPLE

Paint Name Order Code

POWDER COATING

White WH

Sandstone ST

Black BK

Silver SL

Light Gray LG

Slate Gray SG

Medium Bronze MB

Bronze CB

Dark Bronze DB

Hunter Green HG

Dark Green DG

Actual colors vary slightly due to area, sheen, application or lighting. Contact your Valmont Structures representative for a more accurate paint chip sample or other color options.

STEEL FINISH COATING SYSTEMS

Valmont Structures offers several options for steel paint coatings and control systems. V-PRO™ Protection Systems were developed exclusively for Valmont by utilizing independent laboratory testing. Depending on your service expectations and environmental conditions, the following corrosion protection systems are available:

System	Ordering Code	Warranty Years	Warranty Coverage					
			Corrosion	Adhesion	Color/ Gloss Retention	Galvanized	Prime Coat	Finish Coat
Galvanized	GV	1	✓	✓		✓		NONE
Finish Painted	FP	1	✓	✓				TGIC or Urethane Powder
Finish Paint over Galvanized	FPGV	1	✓	✓		✓		TGIC or Urethane Powder
V-PRO™ 30	VP30	3	✓	✓			✓	TGIC or Urethane Powder
V-PRO™ 32	VP32	3	✓	✓		✓	✓	TGIC
V-PRO™ 53	VP53	5	✓	✓			✓	SUPER DURABLE
V-PRO™ 54	VP54	5	✓	✓		✓	✓	SUPER DURABLE
V-PRO™ 57	VP57	5	✓	✓	✓	✓	✓	SUPER DURABLE
V-PRO™ 100	VP100	10	✓	✓	✓		✓	FLUOROPOLYMER
V-PRO™ 105	VP105	10	✓		✓	✓	✓	FLUOROPOLYMER

WHY CHOOSE V-PRO PROTECTION SYSTEMS?

Valmont Structures devoted extensive research to ensure your steel poles receive maximum protection from the environment. We qualify our protection systems by utilizing the most sophisticated testing techniques available to the industry. Our testing includes:

- Cathodic Delamination Testing
- Electrochemical Impedance Spectroscopy (EIS)
- Cross-Section Analysis
- Cyclic Exposure
- UV Testing
- Gravelometer Testing
- Gloss and Color

Valmont's V-PRO Protection Systems were developed utilizing comprehensive testing while working with various paint coating manufacturers. Our systems were evaluated under numerous environmental conditions by an independent laboratory. Through this testing, we know how our systems will perform over time and provide you the service life you expect.

For additional information, please contact your Valmont Structures representative.

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FREQUENTLY ASKED QUESTIONS

What determines the life of my pole structure?

It is a fact of life that metal wants to go back to nature. Steel wants to rust, essentially going back to iron ore. This is the corrosion process. Pole life is determined by how well we can control corrosion. The longer we can protect the pole substrate (steel, aluminum, etc.) from corrosion, the longer the pole will remain structurally functional. V-PRO Protection Systems are designed to provide many years of corrosion protection in various environments.

What are the benefits of galvanizing?

Galvanized structures are protected from corrosion attack due to both the barrier effect and the galvanic (sacrificial) action of zinc. Zinc does a fine job of protecting a steel pole in most atmospheric conditions and in moderately corrosive and oxidizing soils. Organic coating systems are used over galvanizing as additional protection against corrosive environments.

What causes paint to peel?

Paint peeling is the result of a loss of bond between the paint coating and the surface (substrate) of the structure. Over time, paint coatings break down due to corrosive salts, moisture and ultraviolet sun rays. All paint systems are not created equal. Depending on the paint system, application and other properties, some systems are better matched for specific service conditions than others. V-PRO Protection Systems are tested to provide long lasting resistance to paint peeling in various service environments and can be matched to provide superior adhesion in your specific environment.

What is Cathodic Delamination (CD)?

As defined by corrosion engineers, cathodic delamination is the destruction of adhesion between a coating and the coated surface caused by products of a cathodic reaction. This means that the coating "delaminates", or lifts and separates from the substrate even though it exhibits good adhesion prior to being exposed to service conditions.

How does Cathodic Delamination Testing benefit my projects?

Cathodic delamination testing is the litmus test for how well a paint finish will withstand peeling due to corrosion. Valmont Structures utilizes cathodic delamination testing to determine how well protective coatings resist corrosion after it's been damaged and no longer provides barrier protection in a localized area such as a rock chip. A protective coating with a good CD rating resists the undercutting forces of corrosion in the damaged area, even though the barrier has been compromised.

What is Electrochemical Impedance Spectroscopy (EIS)?

EIS is a predictor as to how well a paint coating's barrier properties resist corrosion over time.

How long will my paint color last?

Paint color and gloss retention are determined by the formulation of the paint system. Ultraviolet rays of the sun, over time, cause fading of color and loss of gloss. Certain colors are also more prone to fading than are others. The V-PRO 57, 100 and 105 Systems are designed to provide extended resistance to color fading and gloss retention.

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