



## THE STANDARD FOR DEFENSE AGAINST CORROSION

When industry leaders put their heads together, great things happen. Developed through a partnership between Valmont® Utility and Valspar Protective coatings, TriFORCE™ has set a new standard in below-grade protection. The key is combining a world-class duplex coating system with new innovations in advanced applications. The result is the best approach yet to combating today's biggest corrosion challenges:

**CHALLENGE:** **Hard Edge** (water shelf)  
**Feathered Edge** (application variability)

**SOLUTION:** **Beveled Top Edge**  
Eliminates application variability and any hard edges.

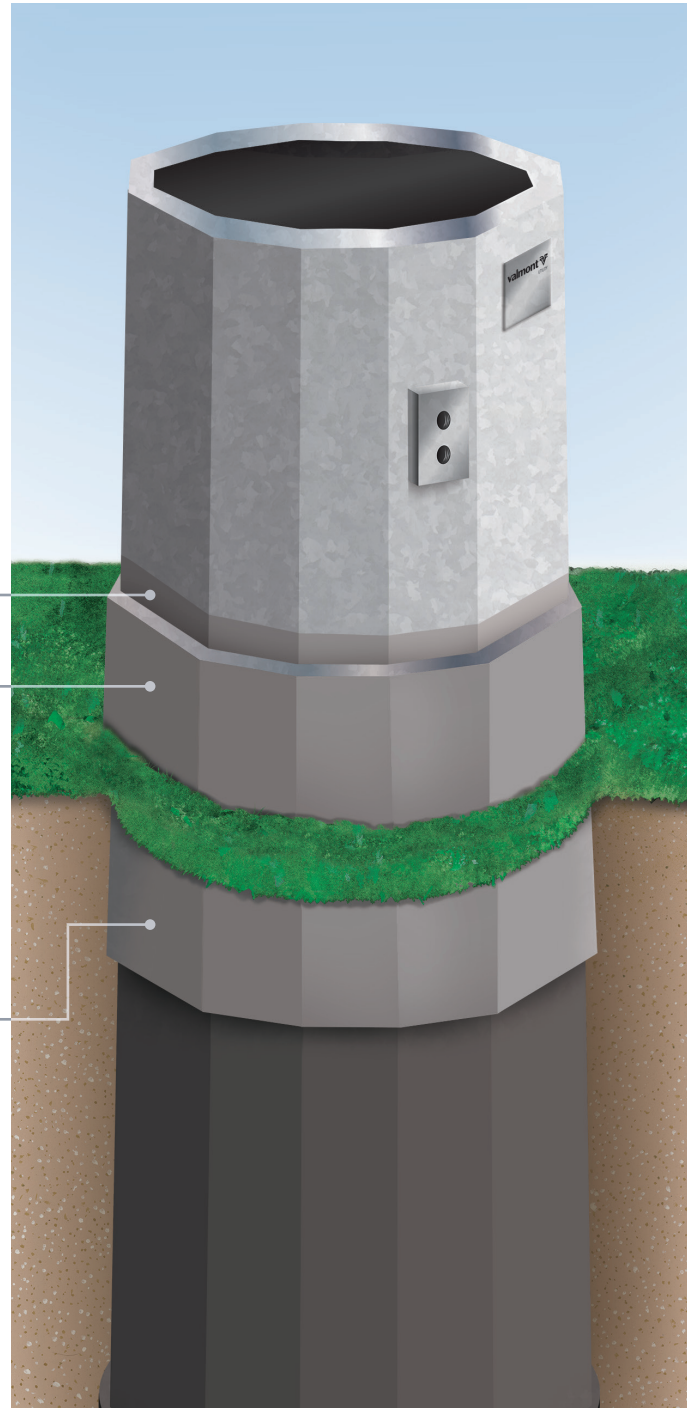
**CHALLENGE:** **UV Exposure**

**SOLUTION:** **Valspar Duraspar®**  
Duraspar UV Top Coat provides technically proven UV performance along with excellent durability and chemical resistance, for the most demanding applications.

**CHALLENGE:** **Base Coat Performance**

**SOLUTION:** **Valspar CorroCote® II Ultra**  
Improves critical characteristics such as adhesion, cathodic disbondment, abrasion and impact resistance.

**Dual Pass Method**  
Maximizes corrosion protection.





## THE COURSE FOR PROTECTION

Above-ground performance has proven that galvanizing offers powerful and effective corrosion protection. Below ground, a stronger protective coating system is vital for any structure. TriFORCE combines specialized coatings products, with exclusive applications processes, to provide the industry's best below-grade protection system:

- **CorroCote® II Ultra** — It is an enhanced polyurethane providing the best below-grade corrosion protection available (already proven in the underground pipe market). CorroCote II Ultra exceeds the minimum industry requirements by increasing adhesion; improving abrasion, impact and chemical resistance; reducing cathodic disbondment; and decreasing water absorption and permeability.
- **Duraspar® UV Top Coat** — Further enhancing the protection system, Valmont Utility applies a compatible UV-stable over the above-ground portion of the coating. This top coat can also be applied over the entire embedded section if the poles remain in storage for an extended period. Valspar Duraspar provides exceptional durability and UV stability, backed by decades of proven performance in commercial uses.
- **Dual Pass** — This system, applied using Valmont Utility's dual pass application method with beveled-edge finish, delivers the best corrosion protection available for any embedded utility structure.

## PROVEN IN THE FIELD

TriFORCE has proven its value in the field. View independent, third party test results at <http://www.valmontutility.com/TRIFORCE>. See firsthand how TriFORCE will extend the life of your utility structures and bring longevity to the backbone of your grid.

 <b>CURRENT INDUSTRY STANDARD</b>	 <b>TRIFORCE EXCLUSIVE FEATURE</b>
<p>Current base coat standards meet the minimum requirements for protection based on optimal application conditions.</p>	<p><b>Valspar CorroCote II Ultra</b> delivers improved performance in adhesion, cathodic disbondment, impact and abrasion resistance through a balanced cure window that provides the necessary time to wet out and permeate the steel profile.</p>
<p>Although Polyurethane, Polyurea and Hybrid products are UV resistant, they are not truly UV-stable and only offer marginal UV protection. UV-resistant coatings will have some chalking and coating loss with UV exposure.</p>	<p><b>Valspar Duraspar UV stable coatings</b> provide optimal protection even in the harshest UV environments with added chemical and abrasion resistance against pollutants, etc. Adding to the UV top coat provides an additional coating system with exceptional performance.</p>
<p>A hard edge or shelf on the coating provide a place for moisture and contaminants to accumulate and initiate corrosion. A feathered edge is heavily dependent upon the applicator to maintain consistency and repeatability, which poses challenges.</p>	<p><b>The patented Shadow-Mask chamfered lip top edge</b>, utilizing aerospace technology, creates a clean, rounded top edge which is highly repeatable with consistent transition areas extending coating design life expectancy.</p>
<p>Variable environmental conditions along with fast application methods can create holidays in the base coat that accelerate corrosion.</p>	<p><b>The Dual Pass application</b> rotates each structure twice, applying 50% of the target coating thickness each time to achieve full coating thickness. This technique dramatically reduces pin holes that penetrate the entire thickness of the coating thereby reducing the risk of premature corrosion.</p>

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