

Thermal Spray Coating (TSC) – Zinc Metalizing Process

<p>Surface Preparation and Finish. The substrate is prepared to a near white metal finish in accordance with SSPC-SP 10 NACE No 2, with the surface finish and cleanliness confirmed according to SSPC-VIS 1. A calibrated profile gauge is used to measure the surface roughness for application of zinc coating.</p> <p>Process can be applied to new and corroded material.</p>	
<p>CGIs Thermal Spray Application. Using an arc-spray gun, zinc wire is melted and compressed air blows the molten zinc onto the prepared substrate (vehicle/trailer frame) depositing a specified amount of material to create a protective corrosion and erosion barrier. Common applications apply 100% Zinc or 85/15 Zinc Aluminum.</p> <p>CGI application specialist are certified to the Joint Standard SSPC-CS 23.00/AWS C2.23M/NACE No. 12</p>	
<p>Quality and Process Control. Inspectors use a calibrated material thickness gauge and measure the amount of coating deposited (approximately 6 - 10 mils) in multiple locations throughout a piece of equipment. Adhesion testing (how well the zinc adheres to the prepared surface) is accomplished through adhesion pull tests on coupons that have undergone the same process.</p>	
<p style="text-align: center;">Primer and Top Coating</p> <p>Metalizing is compatible with all standard primer and top coat applications, such as:</p> <ul style="list-style-type: none"> • TGIC Durable and Ultra Durable Powder Coat • Low Temperature Powder Coat • CARC Powder Coat • Waterborne Acrylics and Lacquers 	
<p style="text-align: center;">Field Repair</p> <p>Zinc and Powder Coat can be repaired in the field</p> <ol style="list-style-type: none"> 1.) Repair substrate as required 2.) Remove loose/flaking zinc and top coat 3.) Feather edges of zinc and top coat 4.) Apply 95% liquid zinc (spray or brush-on) 5.) Allow zinc to dry (approximately 1 hour) 6.) Apply polyurethane primer & topcoat 	<p style="text-align: center;">Other Applications</p> <p>Many other wires are available, including copper, stainless steel, and aluminum &</p> <p>These sprays can be applied to other metalizing applications such as aluminum and concrete.</p>