

## PRODUCT DESCRIPTION

**Cerakote® H-900 Electrical Barrier** Ceramic Coating has been designed to provide a high-quality, long-lasting finish for parts requiring electrical insulation. **Cerakote® H-900 Electrical Barrier** is a durable, corrosion-resistant spray-on coating that provides unparalleled levels of adhesion and resistance to solvents and chemicals. The foundation for **Cerakote® H-Series** coatings is a unique ceramic technology that imparts both flexibility and excellent wear resistance to the final coating. The maximum operating temperature of this coating is 400°F.

In addition to performance, the **Cerakote® HV-Series** product is designed for ease of application. It is VOC-exempt and available as a two-component, oven-cure system.

Cure Schedule Options (H-100 Catalyst):

250°F for 2 hours or 300°F for 1 hour

**Cerakote® HV-Series** Ceramic Coating is available in one distinct color (white) due to its unique performance formulation. Visit [www.nicindustries.com](http://www.nicindustries.com) to view a complete listing of coatings.

**Cerakote® HV-Series Coating is recommended for components that require a low dielectric constant and/or a high voltage breakdown. It is also extremely resistant to chemicals and can withstand pH extremes. Contact a Cerakote® sales representative to determine which coating is appropriate for your application.**

## H-900 Electrical Barrier

Gloss Level (18:1)*	Velvet; 5.4 Gloss Units at 60°
Theoretical Solids by Weight	49% +/- 2%
Theoretical Coverage per gallon at 1.0 mil	783 ft <sup>2</sup>
Viscosity (Brookfield Viscometer)	153 cP
Recommended Film Thickness	1.0 mil
5% Salt Spray (ASTM B117)	TBD
Pencil Hardness (ASTM D3363)	8h
Scratch Hardness (ASTM D3363)	7h
Adhesion Cross-Cut Tape (ASTM D3359)	5B
Mandrel Bend (ASTM D522)	No coating loss with 180° rotation
Impact (ASTM D2794)	160/160 inch-lbs (No coating loss, but indirect fractures present)
Thermal Emissivity	0.87
Density (g/mL)	1.47
Dynamic CoF over SS (ASTM D1984)	TBD
**Dielectric Strength (V/mil)	3000
**Corrected Dissipation Factor, D	0.006
**Dielectric Constant, k'	1.18

### SHELF LIFE: 12 MONTHS FROM DATE OF SHIPMENT.

\*Results based on coated blasted steel cured at 250 °F for 2 hours immediately after application.

\*\*Testing completed by Intertek Plastic Technology Laboratories in Pittsfield, MA.

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The information contained in this bulletin we believe to be correct to the best of our knowledge and testing. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that you make adequate tests in your laboratory or plant to determine if this product meets all your requirements.