

**Cerakote® GEN II NIR Ceramic Coatings (HIR Series)** offer signature management and camouflage against 3<sup>rd</sup> Generation Night Vision. This coating was engineered for LEO and Military applications, specifically designed from the successful H-Series coatings which are used by various industries throughout the world.

**Cerakote HIR- Series Coatings** are durable, corrosion resistant and provide unparalleled levels of hardness and adhesion. These coatings are also resistant to most solvents and chemicals. The foundation for Cerakote HIR-Series Coatings is a unique ceramic technology that imparts both flexibility and excellent wear resistance to the final coating. In addition, the Cerakote HIR-Series line of products is designed for ease of application.

**Cure Schedule:**  
250°F for 2 hours  
300°F for 1 hour

**Cerakote HIR-Series Ceramic Coatings** are available in various non-metallic finishes and different gloss levels. Visit [www.cerakote.com](http://www.cerakote.com) to view a complete color chart.

**Contact a Cerakote sales representative to determine which coating is appropriate for your application.**

## HIR-146 GRAPHITE BLACK

Gloss Level*	9 Gloss Units at 60°
Theoretical Solids by Weight	31% $\pm$ 2%
Theoretical Coverage per gallon at 1.0 mil	493 ft <sup>2</sup>
Viscosity	78 cP
Recommended Film Thickness	1 mil
Color Stability	350+°F
Coating Stability	500+°F
5% Salt Spray (ASTM B117)	TBD
Pencil Hardness (ASTM D3363) Scratch	9H
Hardness (ASTM D3363) Adhesion	8H
Cross-Cut Tape (ASTM D3359) Mandrel	5B
Bend (ASTM D522)	100% Resistance
Impact (ASTM D2794)	160/160 inch-lbs
Density (g/mL)	1.41 g/mL
Strainer Size	150

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

### Shelf Life: 12 Months from date of shipment

NIC Industries, Inc. does not warranty the use or application of the materials it manufactures or supplies. Our only obligation shall be to replace any defective materials supplied by us or refund the original purchase price of that product after we have determined the product to be defective. We assume no liability for damages of any kind and the user accepts the product "as is" and without any warranties, expressed or implied. The suitability of the product and/or intended use shall be solely the responsibility of the user.

All Cerakote coatings are VOC compliant under the EPA and have low to no VOC content. To find out the VOC content of an individual coating please contact [sds@nicindustries.com](mailto:sds@nicindustries.com) for more information.

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.