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**PRODUCT DATA SHEET Ciloxide™ Black**  
**(CXBK)**

**SELECTION DATA**

**PRODUCT DESCRIPTION:**

**Ciloxide** is a “ceramic” coating designed to be applied primarily to exhaust systems components and other parts subject to high temperature and movement/flexing. When applied to exhaust systems **Ciloxide** will withstand substrate temperatures of over 2000°f. **Ciloxide** will handle environmental temperatures of up to 2000°f. Due to its unique ceramic nature, the coating also functions as a very effective thermal barrier, with reduced thermal radiation characteristics. In addition **Ciloxide** has lubricating/release capabilities. **Ciloxide** may be partially cured at 500°f for one hour; however, a **full cure at 750°F for one hour at temperature is required.** The coating cures out to a durable surface with excellent adhesion. Corrosion and chemical resistance is only achieved after the coating achieves a complete cure.

**NOT RECOMMENDED FOR:** N/A

**CHEMICAL RESISTANCE GUIDE:**

<u>Exposure</u>	<u>Splash &amp; Spillage</u>	<u>Fumes</u>
Acids	Poor	Poor
Alkaline	Poor	Poor
Solvent	Good	Good
Fluids	Good	Good
Fuels	Good	Good
Salt	Good	Good
Water	Good	Good

**TEMPERATURE RESISTANCE:** (non-immersion)  
 2000f substrate, 2000f maximum environmental

**SUBSTRATES:** May be applied to both ferrous and non-ferrous.

**TOPCOAT REQUIRED:** None Required

**COMPATIBILITY WITH OTHER COATINGS:** May be applied over MCS or HHBK to withstand higher substrate temperature or to increase the thermal barrier functions.

**RECOMMENDED DRY FILM THICKNESS PER COAT:**  
 .001” to .0015”

**SURFACE PREPARATION:** All parts must be absolutely free of all oils, grease, moisture, dust, scale or corrosion.

**METALS:** For steel, sandblast with 80-100 grit aluminum oxide or similar.

\*NOTE: Phosphating may be preformed in lieu of sandblasting or in conjunction with the above mechanical etch.

**FINAL CLEAN:** Before spraying the part must be thoroughly cleaned using air blast, hot water rinse, solvent base rinse, or any other method that provides a clean dry surface. DO NOT USE petroleum based solvents,

Test	CXBK
<b>Adhesion</b>	
<b>ASTM D 3330</b>	Pass
<b>Pencil Hardness</b>	8H Plus Pass
<b>Mandrel Bend 1/4" Dia.</b>	Pass
<b>Impact</b>	
<b>ASTM D 2794</b>	Pass
<b>Thermal Resistance</b>	
<b>1200C/2200F Flame</b>	Pass
<b>Thermal Shock Resistance</b>	
<b>540C/1000F Surface *</b>	Pass
<b>Thermal Shock Resistance</b>	
<b>700C/1300F*</b>	Pass
<b>Salt Spray**</b>	Good
<b>Conductivity</b>	Non Conductive
<b>Chemical Soak</b>	Pass
<b>Heated Chemical Quench***</b>	Pass
<b>Color Stability</b>	Pass

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