10840 Chapman Hwy Unit A, PO Box 668 ♦ Seymour, TN 37865 ♦ USA
Phone 865-773-0599
♦ Fax 865-773-0599
www.techlinecoatings.com

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:

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