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PRODUCT DATA SHEET: Black Satin™

Part#: BHK

SELECTION DATA

PRODUCT DESCRIPTION:

Black Satin (BHK) is a “ceramic” coating designed to be applied primarily to exhaust systems components. When applied to exhaust systems, BHK will withstand substrate temperatures of over 2000°F. BHK 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. Full cure requires 700°F for one hour at temperature. The coating cures out to a durable surface with excellent adhesion. BHK was designed to be an air drying coating capable of being cured with exhaust heat. In most cases this is acceptable. However initial exhaust gas temperatures at start up are critical, as the extremely high temperatures that can be generated by both lean or rich conditions can damage the resin system before full cure is achieved, leading to a failure of the coating. Corrosion and chemical resistance is only achieved after the coating achieves a complete cure.

RECOMMENDED USES:

Designed for single coat coverage. Primarily for use on exhaust systems components or other parts subject to high temperatures.

NOT RECOMMENDED FOR: Substrates that cannot handle the cure temperature.

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

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

TOPCOAT: None Required

SPECIAL TREATMENT: None Required

COMPATIBILITY WITH OTHER COATINGS: May be applied over PrevCor (PCI), MCX or MCS to withstand higher substrate temperature or to increase the thermal barrier functions.

COLOR: Satin Black

APPLIED FILM THICKNESS: .0001” - .0015”

HRC (Equivalent Rockwell C Scale): N/E

ADHESION (Tape Test ASTM D 3330): 5B

PENCIL HARDNESS TEST: 8+

IMPACT TEST (ASTM D 2794 2 lb. Weight): N/E

FLEXIBILITY/ BENDING ADHESION: Very Good

THERMAL TEMPERATURE RESISTANCE:  
Survives base metal temperatures over 2000°F

SALT SPRAY RESISTANCE (ASTM B117): Salt spray resistance can be impacted by the use of a base coat and can vary from 400 hours to over 6000 hours.

CORROSION TEST DATA: Excellent after full cure.

ACCEPTABLE SUBSTRATES FOR APPLICATION:  
All metals and substrates that can handle the cure temperature.

CHEMICAL RESISTANCE: Excellent after full cure.