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PRODUCT DATA SHEET: ColorGard Exhaust System Coatings

Part#: Available in a variety of colors

SELECTION DATA

PRODUCT DESCRIPTION:

ColorGard is a ceramic coating designed to be applied primarily to exhaust system components. When applied to exhaust systems ColorGard will withstand substrate temperatures of over 1300°F, (depending on the color choice, the substrate temperature can be over 2000°F) while maintaining color stability. ColorGard can handle environmental temperatures over to 2000°F. Due to its unique ceramic nature, the coating also functions as a very effective thermal barrier, with reduced thermal radiation characteristics. ColorGard full cures at 600-700°F for one hour at temperature. The coating cures to a very hard, durable surface with excellent adhesion. ColorGard was designed to be an air drying coating capable of being cured with exhaust heat with the exception of certain colors. 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 and 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 full cure.

Colors Available: Black, Blue, Cast Iron Gray, Clear, Gold, Grey Ice, Orange, Red, Satin Aluminum, Shiny Aluminum, Titanium, White and Yellow. (Custom Colors available)

RECOMMENDED USES: Designed for single coat coverage. Primarily for use on exhaust system 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 & 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 REQUIRED: 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: Various

APPLIED FILM THICKNESS: .0001” to .0015”

HRC (Equivalent Rockwell C Scale): N/E

ADHESION (Tape Test ASTM D 3330): 5B

PENCIL HARDNESS TEST: 8+

IMPACT TEST (ASTM D2794 2 lb. Weight): N/E

FLEXIBILITY/ BENDING ADHESION: Very Good

THERMAL TEMPERATURE RESISTANCE: Survives base metal temperatures over 2000°F (actual level of color stability depends on the color choice).

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.

CHEMICAL RESISTANCE: Excellent after full cure.

Note: N/A = Not applicable for this product.
N/E = Not established for this product.

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