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PRODUCT DATA SHEET: CermaKrome™ Low Humidity Formulation

Part#: MCX-LH

SELECTION DATA

CHEMICAL NAME / SYNONYMS:

Aluminum filled metallic ceramic coating.

PRODUCT DESCRIPTION:

CermaKrome Low Humidity Formula (MCXLH) is a metallic ceramic coating capable of providing extremely high levels of corrosion and chemical protection in very thin films. Recommended for use when application environment is less than 40% relative humidity. When applied to exhaust systems MCXLH will withstand substrate temperatures of over 1300°F. In addition direct flame will not cause delamination, as long as substrate temperatures do not exceed this temperature. MCXLH will handle environmental temperatures of up to 1600°F. Due to its unique ceramic nature, the coating also functions as a very effective thermal barrier, with reduced thermal radiation characteristics. Requires a 500°F cure, with maximum hardness achieved with a 650°F cure. After curing, the coating requires “burnishing” to be sealed. This burnishing process can produce a very high luster, near chrome, appearance. The coating cures out to a very hard surface with excellent adhesion. The water based solvent system provides for an environmentally friendly material with a bake/cure cycle that is not as hazardous as other thermally cured resin systems.

RECOMMENDED USES:

Can be applied in a “thicker” film, without cracking or flaking. MCXLH, has excellent “hiding” characteristics, where surface flaws need to be covered. Designed for single coat coverage. May be applied to virtually any metal part for a durable, chrome like finish.

NOT RECOMMENDED FOR: Magnesium.

CHEMICAL RESISTANCE GUIDE:

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

TEMPERATURE RESISTANCE: (non-immersion)
1300°F substrate, 1600°F maximum environmental

CermaKrome has been qualified to Ford Specification WSA-M2P170-A3

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

CRYOGENIC AND HEAT TEST:

1. Plates fully immersed in liquid nitrogen (- 273°C) for one hour.
2. Plates immediately heated to (+1300°C).
3. Plates re immersed in liquid nitrogen.
4. Continues cycle of test for 8 hours.

ADHESION TESTING (ASTM D4541): (MPa), average MCX 3.5

ADHESION (Tape Test ASTM D 3359): 5B (Excellent)

IMPACT TEST (ASTM D 2794 2 lb. Weight): Passed at 48"

FLEXIBILITY (ASTM D522): 180 degree full load flexibility

CONDENSATION WATER TEST PROTOCOL DIN 50'017:

Coating System Blistering, Disbondment From Scribe, Other-surface anomalies
No, No, None

SALT SPRAY (ASTM B117): 6500 hours no failure

CROSS CUT (ISO 2409): 0

IMPACT TEST (SABS METHOD 146): >14 jules

FLEXIBILITY TEST (SABS METHOD 145): <5mm

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