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## PRODUCT DATA SHEET

### Carrera Coat™ Thermal Dispersant

Part#: CARTD

#### PRODUCT DESCRIPTION:

*Carrera TD* is a ceramic Thermal Dispersant capable of providing extremely high levels of chemical and corrosion protection in very thin films while accelerating the flow of heat. When properly applied *Carrera TD* will withstand substrate temperatures over 1500°F. *Carrera TD* will air cure over a period of 24 hours, though it will be dry to the touch and accept reasonable handling in less than 1 hour and may be placed in service after 8 to 10 hours. Maximum hardness is achieved after 7 days. *Carrera TD* requires no surface etch and will bond to extremely smooth surfaces, though a surface etch is recommended when possible. The coating cures to a very hard, smooth surface with excellent adhesion and resistance to UV. *Carrera TD* is solvent based with very low to no volatile organic compounds (V.O.C.) depending on formulation. The standard color is Black.

#### RECOMMENDED USES:

*Carrera TD* is recommended for use on radiators, intercoolers, brake components, cooling fins of all types and any other unit where accelerating the transfer of heat would be beneficial. The high level of chemical and corrosion resistance means it can be used in exterior applications where deterioration of a component reduces its capabilities or could even lead to failure, such as on air conditioning units.

**NOT RECOMMENDED FOR:** Highly porous surfaces.

**CHEMICAL RESISTANCE:** Excellent.

**TEMPERATURE RESISTANCE:** to 1500°F substrate.

**FLEXIBILITY:** Good      **WEATHERING:** Good

**UV RESISTANCE:** Excellent

**ABRASION RESISTANCE:** Good.

**SUBSTRATES:** May be applied to both ferrous and non-ferrous metals, glass, ceramics, and plastics as well as over other paints and coatings.

**TOPCOAT REQUIRED:** None

**SPECIAL TREATMENT:** None

**COMPATIBILITY WITH OTHER COATINGS:** N/E

**PRIMER:** No primer needed.

**MIXING:** Stir well.

**RECOMMENDED DRY FILM THICKNESS PER COAT:** .0003" to .0008"

**THEORETICAL COVERAGE:** @ 500 Sq. Ft. Gallon

**BURNISHING:** None.

**SHELF LIFE:** One (1) year.

**COLORS:** Black.

**FLASH POINT:** 26°C/79°F

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

**FINAL CLEAN:** Degrease using Acetone or similar solvent that leaves no residue. DO NOT USE petroleum based solvents.

#### APPLICATION TEMPERATURES:

	<u>Material Surfaces Ambient Humidity</u>			
Normal	64-86°F	64-86°F	61-90°F	65-85%
Minimum	56°F	56°F	50°F	50%
Maximum	95°F	100°F	100°F	95%

**SPRAY:** Apply coating in light fog passes (approximately 20% overlap) to achieve a thickness of .0003" to .0008". Use sufficient air volume for correct operation of equipment (minimum 15 PSI). Minimum air, coating and part temperature should be 65°F, if below, warm up part and coating. Spray at a right angle to part with a 1mm or smaller nozzle size. Wait approximately 10 minutes between coats if more than one coat is desired. Do NOT wait more than 20 minutes before applying a second or any subsequent coats.

**SPRAY GUN & Mfr.:** Any conventional unit. Recommended gravity feed type touch-up gun. (Important that nozzle size be 1mm or less.) Clean IMMEDIATELY after use, with Acetone or similar solvent.

**DRYING TIME:** @60 minutes

**FINAL CURE:** Air curing. Cure requires 24 hours minimum at temperatures above 18°C/65°F. Chemical resistance is in 24 hours maximum hardness takes 7 days.



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**VENTILATION AND SAFETY:** When used in enclosed areas, thorough air circulation must be provided during and after application until the coating is cured. The ventilating system should be capable of preventing fine particulate matter from exceeding TLV limits. In addition to proper ventilation, fresh air respirators or fresh air hoods must be used by all application personnel. Where flammable solvents exist, explosion proof lighting equipment must be used. Hypersensitive persons should wear protective clothing, gloves and/or protective cream on face, hands and all exposed areas.

**CLEAN UP:** Acetone or similar solvents, immediately.

**STORAGE CONDITIONS:** (Store indoors)

Temperature: 50-109°F Humidity: 0-100%

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**Note: N/E = Not Established  
N/A = Not Applicable**

#### **APPLICATION INSTRUCTIONS**

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. Those instructions should be followed closely to obtain the maximum service from the materials.