

TECH LINE Coatings

26844 ADAMS AVE. ♦ MURRIETA, CA 92562 ♦ USA

Phone 972-775-6130

♦ Fax 951-461-9658

www.techlinecoatings.com

Fluids

Good

Good

PRODUCT DATA SHEET TURBO X™

SELECTION DATA

CHEMICAL NAME / SYNONYMS:

Silicone / ceramic coating.

PRODUCT DESCRIPTION:

TURBO X™ is a silicone / ceramic coating designed to be applied primarily to exhaust systems components. When applied to exhaust systems **TURBO X™** will withstand exhaust gas temperature temperatures of over 2000°f. (intermittent). **TURBO X™** functions as a very effective thermal barrier, with reduced thermal radiation characteristics. May be partially cured at 500°f for one hour, full cure requires 750°F for one hour at temperature. Curing at 750F will dull the finish. The coating cures out to a durable surface with excellent adhesion. **TURBO X™** 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 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 complete cure. For increased Corrosion resistance apply over PrevCor. Available in Black and Blue.

RECOMMENDED USES:

Designed for single coat coverage. Primarily for use on exhaust systems components or other parts subject to high temperatures. **May be used as a replacement for WBX**

NOT RECOMMENDED FOR: N/A

CHEMICAL RESISTANCE GUIDE:

<u>Exposure</u>	<u>Splash & Spillage</u>	<u>Fumes</u>
Acids	Poor	Poor
Alkaline	Poor	Poor
Solvent	Good	Good

Fuels	Good	Good
Salt	Good	Good
Water	Good	Good

TEMPERATURE RESISTANCE: (non-immersion)
2000f substrate, 2000f maximum environmental

FLEXIBILITY: Good **WEATHERING:** Good

ABRASION RESISTANCE: N/E

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 MCS or HHBK to withstand higher substrate temperature or to increase the thermal barrier functions.

SPECIFICATION DATA

THEORETICAL SOLIDS CONTENT OF MIXED MATERIAL: @ 30% WT.

RECOMMENDED DRY FILM THICKNESS PER COAT:
.001” to .0015”

THEORETICAL COVERAGE: @ 400 Sq. Ft. Gallon

BURNISHING: None needed after cure

SHELF LIFE: 1 year.

COLOURS: Satin to flat Black

GLOSS: Varies depending on application air pressure and temperature.

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ORDERING INFORMATION

Prices may be obtained from Tech Line Coatings, Inc. sales representative or main office.

APPROXIMATE SHIPPING WEIGHT:

FLASH POINT: 79F
TURBO X™

(Minimum 30 PSI, Maximum 45 PSI) Minimum part temperature should be 65f, if below warm up part. Spray at a right angle to part with a 1mm or smaller nozzle size. Spray all irregular surfaces and edges first, making an extra pass later. Check part for complete coverage. Part should be a slightly gloss black color.

GUN & Mfr.: Any conventional unit. Recommended gravity feed type touch-up gun. (Important that nozzle size be 1mm or less)

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.

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 performed 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,

MIXING: Stir and shake well.

*NOTE: May be thinned with Xylene

PRIMER: No primer needed.

APPLICATION TEMPERATURES:

	<u>Material Surfaces</u> <u>Ambient</u> <u>Humidity</u>			
Normal	18-30°C	18-30°C	16-32°C	65-85%
Minimum	13°C	13°C	10°C	50%
Maximum	35°C	38°C	38°C	95%

SPRAY: Apply coating in light fog passes (approximately 20% overlap) to achieve a thickness of .001" to .0015". Use sufficient air volume for correct operation of equipment.

DRYING TIME: A minimum of 15 minutes before oven curing. Avoid exposing to high temperatures before solvents have fully evaporated.

FINAL CURE: Typical: 260°C/ 500°F for partial cure or 400°C / 750°F for one hour at temperature. Maximum

***Note: If final cure is attained and recoat is necessary, special surface preparation may be required.

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: Xylene or other compatible solvent

STORAGE CONDITIONS: (Store indoors)
Temperature: 10-43°C Humidity: 0-100%

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Note: N/E = Not Established

N/A = Not Applicable