

# TECH LINE COATINGS, INC.



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## PRODUCT DATA SHEET

### PRODUCT: **Black Satin**

*Black Satin* is an air drying ceramic reinforced thermal barrier coating. Originally designed to handle re-entry temperatures for space vehicles *Black Satin* was modified to be an easy to apply coating for automotive exhaust system components. *Black Satin* has been tested for adhesion at temperatures exceeding 2000f for short periods. *Black Satin* can be used to determine exhaust component metal temperatures as it experiences several color changes as temperatures ramp up from 1000f, base metal temperature to 2000f. This can be a tuning aid. Independent testing has demonstrated that *Black Satin* is one of the most effective thermal barrier coatings available. *Black Satin* will air dry to a tough film and cure in use as long as metal temperatures exceed 750f. *Black Satin* may be oven cured to impart chemical resistance prior to installation. After *Black Satin* is cured it has good chemical and corrosion resistance. Partial curing occurs at 500f for one hour and full cure at 750f for one hour.

#### KEY FEATURES

\* **HIGH HEAT CAPABLE**

Maintains adhesion at base metal temperatures in excess of 2000f.

\* **HIGHLY RESISTANT TO THERMAL SHOCK**

Survives cyclic heating and cooling. oil and water quenching

\* **INSULATIVE**

Establish an extremely effective thermal barrier. The Black color leads to more rapid dissipation of the heat that does reach the surface leading to an additional reduction in under hood temperatures as well as surface temperatures.

\* **AIR DRYING**

Black Satin air dries very rapidly to a tough film, allowing large part that can not be oven cured, to be coated. Parts must be then cured in use to acquire chemical, moisture and corrosion resistance.

Black Satin may be applied in conjunction with other TECH LINE products. Increased hardness, increased chemical and corrosion resistance and film build can be achieved when utilized with other coatings. Black Satin also has applications wherever heat resistance is needed; boilers, and steam lines can benefit from the use of Black Satin. Contact TECH LINE'S Technical department for more information.

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*READ THE MATERIAL SAFETY DATA SHEET BEFORE USE.*