



## MUFFLER HIGH TEMP (< 650°C Peak Temp) POWDER COATINGS

TECHNICAL DATA SHEET

### INTRODUCTION

OXYCOLOUR MUFFLER COATINGS are silicone powder coatings designed for use in high temperature applications. The pigments and resins create a performance coating able to withstand peak temperatures of up to 650°C and constant temps of 550°C with repeated heating and cooling specifically of exhaust systems among other substrates.

### GLOSS AND COLOUR RANGE

Matt-Satin finish with fine textured appearance.  
Colours available: Black, Silver and Titanium.

### APPLICATIONS

Used as coating for high temperature applications such as exhaust systems, oven flues, heat shields, barbeques, etc. Excellent UV resistance for outdoor applications.

### APPLICATION SCHEDULE

May be applied by electrostatic spraying using classic devices which can provide a negative tension of 40 - 80kV.

Optimal film thickness: 30-80µm. 1 coat application only (*Cannot be re-coated*).

*Note: Heavier film build is NOT recommended as this may result in blistering or under-cure. Do NOT apply over primers or pre-treatments due to failure of these in high temp applications.*

Cure schedule: 20 minutes @ 235°C metal temperature minimum.

Over-bake will not harm this coating. Under-bake will result in poor flexibility and adhesion as the powder requires the full temperature to ensure crosslinking. Full cure is obtained when curing the top coat at the recommended schedule.

### SUBSTRATES AND PRE-TREATMENT

May be applied to the following substrates after the appropriate preparation:

All metals	Media Blasting (Preferred)
	Mechanical Abrasive
	Alkaline Cleaner with Rinse <i>(Phosphate Pre-treatments should not be used)</i>

### STORAGE

At temperatures not exceeding 25°C and under dry conditions, Muffler Coatings may be stored for up to 6 months without affecting their free-flowing properties. The coating thus obtained will still have optimal characteristics. Muffler Coatings are very heat sensitive and must stay out of heat and direct sunlight.

### PROPERTIES OF THE POWDER

Specific Gravity (DIN 55990/3)	20 ± 0.5 (depending on colour)
Theoretical Coverage at 50 µm	4.5 m <sup>2</sup>
Pencil Hardness	> H
Temperature Performance	< 550°C Constant – Good film integrity

*In accordance with OXYPLAST policy of product development, this specification is subject to change without notice.*