

## Corro-Coat TR 500

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### PRODUCT DESCRIPTION

The product is a high jetness black powder coating. It is designed for applications requiring prolonged service temperature up to 500 °C (932 °F).

#### Application areas

This product is suitable for interior and exterior use.

Typical application areas:

Exhaust system components for automotive and non automotive engines  
Any applications where temperature resistance is required

The product is recommended for low carbon steel substrates.

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### POWDER PROPERTIES

#### Storage

Keep in a dry cool area. Maximum temperature 25 °C. Maximum relative humidity 60 %. Shelf life should not exceed six months, at the above mentioned conditions.

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### APPLICATION

#### Pretreatment

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the pretreatment. For optimal results, it is recommended to follow the pretreatment supplier's instructions and recommendations.

For best result, the substrate should be clean, dry and free from any contamination.

For indoor application, the steel substrate should be grit blasted to Sa 2½ (ISO 8501-1). Aluminum metallizing should be applied over clean, grit blasted (Sa 2½ (ISO 8501-1)) surface to ensure excellent outdoor corrosion resistance.

#### Powder application

Curing schedule	Object temperature	Time
<b>Substrate:</b> <b>Grit blasted steel panels</b>	230 °C	30 minutes

Recommended film thickness (µm): 25-40

Increasing the film thickness above 40 µm could have undesirable effects on mechanical properties.

#### Equipment

Suitable for Corona charging equipment.

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### APPEARANCE

#### Colour

The product is only available in black.

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**Gloss** EN ISO 2813 (60°) Available in low gloss.

**Finish** The product is available in fine textured finish only.

If the significant surface is too small or unsuitable for the gloss to be measured with the glossmeter, the gloss should be compared visually with the reference sample (from the same viewing angle).

## PERFORMANCE

Property	Standard	Result
<b>Adhesion*</b>	ISO 2409 (2 mm crosscut)	Gt 0
<b>Impact resistance*</b>	ASTM D2794 (5/8 " ball)	50 inch-pounds without film cracking
<b>Petroleum resistance*</b>	Dipping - 7 hours at 30 °C Requirement: No wrinkling, peeling, blistering, change of colour, luster or softening.	Pass
<b>Heat proof test**</b>	1. Cyclic heat test: 530 °C for 30 min., water quenching to room temperature. Repeat the cycle 3 times.	Pass
	2. Aging test: 530 °C for 4 hours. Cooled at room temperature. Requirement: No cracks on the surface when viewed under microscope.	Pass
<b>Salt spray test**</b>	1. Normal cure (100 hours) 2. Normal cure (200 hours) 3. 3 times quench at 530 °C (100 hours) Requirement: No blistering and peeling at an area outside 1.5 mm wide on either side of each diagonal line.	Pass Pass Pass

\* Grit blasted steel panels as substrate

\*\* Metalized panels as substrate

## Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

# Technical Data Sheet

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