

Product Data Sheet

Corro-Coat TR 500

Product Description	Corro-Coat TR 500 is a silicone-based high jetness black powder coating designed for applications requiring prolonged service temperature up to 500°C (932° F).
Application Areas	Corro-Coat TR 500 is suitable for interior and exterior applications and is recommended for low carbon steel substrates. Typical application areas are exhaust system components for automotive and non automotive engines of all sizes. Corro-Coat TR 500 may also be used for many other applications where temperature resistance is required.
Pre-treatment	<p>The overall quality of the coating system is largely dependent on the type and quality of the pre-treatment. For best results, the substrate should be clean, dry and free from any contamination.</p> <p>For indoor application, the steel substrate should be grit blasted to Sa 2½ (ISO 8501-1). For outdoor use aluminium metalizing, over grit blasted surface, is required to ensure excellent corrosion resistance.</p>
Film Thickness	Corro-Coat TR 500 recommended film thickness is 25-40 microns. Increasing the film thickness above 40 microns could have undesirable effects on mechanical properties.
Curing Schedules	30 minutes at 230°C object temperature.
Finish	Corro-Coat TR 500 is available only in fine texture finish and low gloss.
Powder Application	Corro-Coat TR 500 can be used for Corona charging equipment.
Storage Conditions	Keep in a dry cool area. Maximum temperature 25°C. Maximum relative humidity 60%.
Shelf Life	Six months from date of manufacture.



Jotun Powder Coatings

Typical Test Data and Results

Values may vary with thickness, colour, gloss and texture of variances.

Test	Substrate	Specifications	Corro-Coat TR 500
Curing conditions	Grit blasted steel panels	Object temperature (°C) Time (min)	230°C 30 min
Dry film thickness	Grit blasted steel panels	30 ± 5 µm	25-40 µm
Colour (visual)	Grit blasted steel panels	Black	High jetness black Fine texture finish
Adhesion	Grit blasted steel panels	ISO 2409 (2mm crosscut)	Gt0
Impact resistance	Grit blasted steel panels	ASTM D2794 5/8" ball	50 inch-pounds without film cracking
Petroleum resistance	Grit blasted steel panels	Dipping - 7hrs @ 30°C Requirement: No wrinkling, peeling, blistering, change in colour, luster or softening.	Pass
Heat proof test	Metalized panels	1. Cyclic heat test: 530°C for 30 min., water quenching to room temp. Repeat the cycle 3 times. 2. Aging test: 530°C for 4 hours. Cooled at room temp. Requirement: No cracks on the surface when viewed under microscope.	Pass Pass
Salt spray test	Metalized panels	1. Normal cure (100 hrs) 2. Normal cure (200 hrs) 3. 3 times quench at 530°C (100 hrs) Requirement: No blistering and peeling at an area outside 1.5mm wide on either side of each diagonal line.	Pass Pass Pass

Note: The information on this Product Data Sheet is given to the best of the manufacturer's knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond the manufacturer's control, only the quality of the product itself can be guaranteed. Jotun Powder Coatings reserves the right, without notice, to alter or change the content of this Product Data Sheet.