

# Product Data Sheet

## Corro-Coat EP Series 9

### Product Description

Corro-Coat EP Series 9 is an epoxy powder coating developed to provide superior protection performance in aggressive environments with particular reference to areas where chemical resistance is required.

Corro-Coat EP Series 9 features high levels of surface hardness and resistance to wear and tear. It offers excellent adhesion to metal bases and is suitable for protective and decorative purposes.

### Application Areas

Corro-Coat EP Series 9 is recommended for applications that call for high surface hardness and high resistance to solvents and chemicals. Corro-Coat EP Series 9 can be applied to machinery, laboratory equipment, automotive coil springs, brake pads, cable ducting, pallet-racks and tools.

Corro-Coat EP Series 9 can be successfully applied to ferrous and non ferrous substrates. Special grades are available or custom-made to meet heavy-duty requirements. Epoxy based powder coatings are discouraged for exterior applications where gloss and colour stability are a prerequisite.

### Pre-treatment

The overall quality of the coating system is largely dependent on the type and quality of the pre-treatment. The recommended types of pre-treatment for the most frequently used substrates are:

Aluminum	Chromate conversion
Steel	Zinc phosphate
Zinc coated steel	Zinc phosphate or chromate conversion
Final rinse (deionized)	The last running water from the object should be tested at 20°C. The readings obtained should measure below 30µS/cm.

### Curing Schedules

Corro-Coat EP Series 9 can be formulated for curing temperatures from 160°C to 200°C object temperature. For detailed information please contact a technical or sales representative at Jotun Powder Coatings.

### Colour Selection

Corro-Coat EP Series 9 is available in a wide assortment of custom-made colours, including RAL and NCS.

### Finish

Corro-Coat EP Series 9 is available in smooth and textured finishes and in all gloss levels (angle 60° measured according to EN ISO 2813).

### Powder Application

Corro-Coat EP Series 9 is available for Corona or Tribo charging equipment.

### Storage Conditions

Keep in a dry cool area. Maximum temperature 25°C. Maximum relative humidity 60%.



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## Technical Data

The technical data provided below are typical for Corro-Coat EP Series 9 applied to 0.8mm zinc-phosphated cold rolled steel panels (60 micron film thickness). Typical values when tested have not necessarily been recently revised. Values may vary with colour, gloss level and texture variances.

Description	Norm	Series 9
Adhesion	EN ISO 2409 (2mm)	Cross-cut rating Gt0 (100% adhesion).
Impact resistance	ASTM D 2794 (5/8" ball)	Most grades exceed 60 inch-pounds without film cracking.
Cupping test	EN ISO 1520	Most grades exceed 5mm without film cracking.
Flexibility	EN ISO 1519	Cylindrical Mandrel bend test, 3 - 12mm without film cracking.
Film hardness	EN ISO 2815	Excellent. Indentation resistance according to Buchholz: > 80.
Salt spray resistance	ASTM B 117	Excellent. Measured with respect to blistering and adhesion loss after 1000 hours.
Resistance to humid atmospheres	DIN 50017	Excellent. Measured with respect to blistering and adhesion loss after 1000 hours.
Heat resistance (colour stability)	ASTM G 154 (UVB-313)	Yellowing of light colours.

**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.

Jotun Powder Coatings. April 2005.

THIS PRODUCT DATA SHEET SUPERSEDES ALL PREVIOUSLY ISSUED VERSIONS.