

Corro-Coat PE

Series 51

Product Description

Corro-Coat PE Series 51 is a versatile exterior durable polyester TGIC-free powder coating developed to provide eye-catching finishes, combining protective properties with good weather resistance and high quality finish to satisfy the end user requirements.

Application Areas

Corro-Coat PE Series 51 features a variety of finishes to suit various interior and exterior applications. It is designed for exterior weather resistance and interior surface protection. It can be applied to an array of architectural aluminum substrates, as well as other ferrous and non-ferrous metals. Typical areas of application are architectural aluminum extrusions for building components and accessories, garden furniture, agricultural machinery, automotive parts and accessories, bicycles, air conditioners and lighting apparatus and fixtures.

When screen printing or sealants are used, it is advised to run separate trials to ensure compatibility and to meet the required performance criteria.

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

15 minutes at 180°C object temperature
10 minutes at 200°C object temperature

Colour Selection

Corro-Coat PE Series 51 is available in a wide assortment of custom-made colours, including RAL and NCS.

Finish

Corro-Coat PE Series 51 is available in smooth and textured finishes. The smooth finish is available in a gloss range from 20 to 95% (angle 60° measured according to EN ISO 2813).

Powder Application

Corro-Coat PE Series 51 is available for Corona or Tribo charging equipment.

Storage Conditions

Keep in a dry cool area. Maximum temperature 25°C. Maximum relative humidity 60%.
(Please refer to Section 7 of the "*Recommended Process and Process Control Requirements for Architectural Aluminum Alloys' Coating*" in Part 2 of the "*Quality and Warranty*" document).

Maintenance

Please refer to "*Powder Coated Façades' Maintenance*" in Part 3 of the "*Quality and Warranty*" document.



Technical Data

The technical data provided below are typical for Corro-Coat PE Series 51 applied to 0.8 mm zinc-phosphated cold rolled steel panels (65 micron film thickness). Typical values when tested have not necessarily been recently revised.

Description	Norm	Series 51
Adhesion	EN ISO 2409 (2 mm)	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 5 mm without film cracking.
Flexibility	EN ISO 1519	Most grades up to 12 mm without film cracking.
Film hardness	EN ISO 2815	Indentation resistance according to Buchholtz: > 70.
Salt spray resistance	ASTM B 117	Excellent. Measured with respect to blistering and adhesion loss.
Resistance to humid atmospheres	DIN 50017	Excellent. Measured with respect to blistering and adhesion loss.
UV resistance	ASTM G 154 (UVB-313)	Excellent. Measured with respect to colour and gloss retention.

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 contents of this Technical Data.

Jotun Powder Coatings. Revised January 2005.

THIS PRODUCT DATA SHEET SUPERSEDES ALL PREVIOUSLY ISSUED VERSIONS.