

Corro-Coat PE Series 54

PRODUCT DESCRIPTION

The product is a TGIC-free powder coating. It is developed to provide good appearance, combining protective properties, weather resistance and high quality finish.

Application areas

This product is suitable for interior and exterior use.

Typical application areas:

- Garden furniture
- Agricultural machinery
- Automotive parts and accessories
- Bicycles
- Air conditioners
- Lighting apparatus
- Fixtures
- Building components

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

POWDER PROPERTIES

Storage

Keep in a dry cool area. Maximum temperature 25 °C. Maximum relative humidity 60 %. If stored longer than 12 months a quality test is recommended.

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.

The recommended types of pretreatment for the most frequently used substrates are:

Substrate

- Aluminium
- Steel
- Zinc coated steel
- Final rinse (deionized)

Pretreatment

- Chromate conversion
- Zinc phosphate
- Zinc phosphate or chromate conversion

The last running water from the object should be tested at 20 °C. The readings obtained should measure below 30 µS/cm.

Powder application

This product can be tailored to customer's requirements and therefore curing schedules will differ. Please consult your Jotun Powder Coatings' representative and the product label on the packaging.

This product can be formulated for curing temperatures from 190 °C to 200 °C object temperature. Gloss variations may occur as curing temperature changes. Separate trials to determine actual gloss is pre-requisite.

Equipment

Suitable for Corona or Tribo charging equipment.

APPEARANCE

Colour The product is available in a wide assortment of custom-made colours, including RAL and NCS.

Gloss EN ISO 2813 (60°) 1-30 (for smooth finishes)

Finish Smooth and textured finishes

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).

Gloss variations may occur as curing temperature changes. Separate trials to determine actual gloss is pre-requisite.

PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate Zinc-phosphated cold rolled steel panels
Substrate thickness (mm) 0.8
Film thickness (µm) 65

Typical values when tested.

Property	Standard	Result
Adhesion	EN ISO 2409 (2 mm)	Cross-cut rating Gt0 (100 % adhesion)
Impact resistance	ASTM D2794 (5/8 " ball)	Most grades exceed 20 inch-pounds without film detachment.
Cupping test	EN ISO 1520	Most grades exceed 2 mm without film detachment.
Flexibility	EN ISO 1519	Most grades up to 12 mm without film detachment.
Film hardness	EN ISO 2815	Indentation resistance according to Buchholz: > 70
Neutral salt spray resistance	ASTM B117	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 color and gloss retention.

Disclaimer

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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.