Corro-Coat PE

Product description: Corro-Coat PE Series 50 is a non-TGIC based exterior durable polyester. Products in this series are developed with the primary objective of combining protective qualities with good weather resistance and a high quality finish.

Application areas: Powder coatings within Series 50 are particularly well suited for products destined for outdoor use. Typical usage being agricultural machinery, automotive parts and accessories, bicycles, building requirements, garden furniture and lighting apparatus/fixtures.

Corro-Coat PE Series 50 can also be successfully applied to other ferrous and non-ferrous bases.

Special products are also available for use on porous bases.

When screen printing or sealant are in use, we advise separate trials to ensure compatibility and that the required performance criteria are met. To ensure optimum adhesion we recommend cleaning of the coating surface with a suitable solvent such as test benzen or isopropanol.

Pre-treatment: The overall quality of the coating system is largely dependent on pre-treatment and surface of the metal. Type and method of pre-treatment must relate to the finished product's definitive use.

For further details refer Jotun Powder Coatings brochures

General technical properties:

- Excellent weather resistance
- Excellent resistance to chalking from UV-exposure
- Excellent mechanical properties
- Limited resistance to alkalines and solvents
- Excellent flow and finish
- Gloss (60°): 20-95

Storage conditions: Keep in cool dry area.
Max 25ºC / max relative humidity 60%.

Colour selection: All colours available to order

Powder application: Corro-Coat PE Series 50 is available for corona and friction charged spray equipment. When applied with corona a high voltage (> 60kV) is recommended.

MTI 97-75 GB 10/99

Corro-Coat PE

Technical Properties

Curing requirements:

20 minutes at 170° object temperature
12 minutes at 180° object temperature
8 minutes at 200° object temperature

Technical Properties

Typical values for powder coating on 0.8 mm degreased, cold rolled steel.
Values will vary with colour, gloss, texture etc.

	STANDARD	POLYESTER (PE)		STANDARD	POLYESTER (PE)
Film thickness, microns		50-120	Adhesion	DIN – EN ISO 2409-2mm	Gt0 – no loss of adhesion
Impact resistance – front (inch-pounds)	ASTM D 2794 5/8" ball	60-160	Corrosion protection (zinc phosphated steel)	Salt spray 1000 h. ASTM B117-73	Excellent
Erichsen cupping test (mm)	DIN - EN ISO 1520	5-10	UV resistance (colour and gloss stability)		Excellent
Flexibility	DIN - EN @ ISO 1519	3-12	Density (kg/dm3)		1.2 – 1.7
Resistance to humid atmospheres	DIN 50017	Excellent	Hardness a. Buchholz	DIN - EN ISO 2815	70-90

Note:
The information on this product data sheet, is given to the best of our knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself.
Jotun Powder Coatings reserve the right without notice to alter or change the technical data.

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Chemical properties
At room temperature

Seawater		Edible oil	
Tap water		97 octan unleaded petrol	
Distilled water		98 octan leaded petrol	
Sodium chloride 2%		Fuel oil	
Sodium chloride 20%		Diesel	
Sulphuric acid 20%		Turpentine	
Hydrochloric acid 5%		Toluene	
Nitric acid 3%		Xylene	
Nitric acid 10%		Butanol	
Nitric acid 30%		Isopropyl alcohol	
Phosphoric acid 4%		Acetone	
Phosphoric acid 10%		Methyl-ethyl ketone	
Phosphoric acid 43%		Ethyl acetate	
Sodium hydroxide 5%		Trichlorethylene	
Sodium hydroxide 30%		Na-hypochlorite 10%	
Acetic acid 10%		Hydrogen peroxide 3%	
Acetic acid, conc.		Phenol	
Citric acid 10%			
Ammonia 5%			
Ammonia, conc.			

- Excellent resistance
- Limited resistance
- Little or no resistance

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LO&S Grafisk: 33 13 97 80 · O.nr. 991524

Jotun Powder Coatings (N) AS, PO Box 2130, Stubberød, NO-3255 Larvik. Tel: 47 33 16 40 00, Fax: +47 33 12 57 13