

# Copol<sup>®</sup> 953

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## Modified Epoxy Powder Coating

**Product Code:** 953 Line

### Description

**Copol** is a tough thermosetting epoxy/polyester powder coating suitable for interior applications, that exhibits excellent flow and gloss combined with good adhesion to a variety of substrates.

**Copol** shows easy application properties and gives a film very resistant to wear and damage.

### Features

### Benefits

Very good flow	Excellent for bathroom fittings, appliances
Film integrity	Long intact life of coating
Very good surface hardness	Hard wearing/serviceable finish
No solvents or emissions	Less waste and pollution to the environment
Good chemical resistance	Resists oil and general chemical spills

### Uses

**Copol** has a multitude of uses over a variety of substrates including steel and aluminium.

Examples include: bathroom fittings, tapware, interior joinery components, computer equipment, electrical equipment, shelving, white goods, office fittings and automotive components.

### Performance Guide

<b>Weather</b>	<b>Copol</b> is not recommended for exterior use. It contains an epoxy component which will chalk on exterior exposure.	<b>Salt Spray</b>	Very good salt spray resistance. < 3mm adhesion loss at scribe after 250 hours salt spray on steel.
<b>Heat</b>	Excellent resistance to 120°C continuous service conditions.	<b>Humidity</b>	Excellent resistance to 38°C/100% humidity for 250 hours on steel.
<b>Acid</b>	Resistant to spills of dilute acid.	<b>Abrasion</b>	Excellent resistance to abrasion.
<b>Alkali</b>	Resistant to spills of dilute alkali.	<b>Pencil Hardness</b>	Min H
<b>Flexibility</b>	Pass 50kg.cm	<b>Cross Hatch Adhesion</b>	No removal

### Chemical Resistance

Very good resistance to oils and general chemicals.

<b>Ethyl Acetate</b>	Softens after prolonged contact	<b>White Spirits</b>	Resistant
<b>Ethanol</b>	Resistant	<b>Xylene</b>	Slight softening/limit contact
<b>Methyl Ethyl Ketone</b>	Softens after prolonged contact		

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### Product Guide

<b>Colour</b>	A wide range of stock and made to order solid colours available.	<b>Specific gravity</b>	1.3 - 1.7 @ colour
<b>Gloss Level</b>	5 - 98% at 60°, as required	<b>Shelf life</b>	12 months when stored below 25°C/dry conditions

### Application Data

<b>Application Method</b>	Electrostatic spray	
<b>Clean Up</b>	Dust or vacuum loose powder. Avoid use of compressed air.	
<b>Cure Schedule</b>	<b>Metal Temperature (°C)</b>	<b>Time (minutes)</b>
	200	8
	190	10
	180	15
<b>Cured Film Thickness</b>	Recommended:	80 µm
	Range:	50 – 120 µm

Note: Curing below metal temperatures of 160°C, or above metal temperatures of 200°C are not recommended. Faster or lower curing system available - refer to **Copol LC** Data Sheet

#### Theoretical spreading rate at recommended film thickness

A coverage rate of 8 - 10m<sup>2</sup>/kg is commonly experienced. Practical spreading rates will vary due to such factors as method and conditions of application and surface profile and texture.

### Application Guide

#### Surface Preparation

All surfaces should be degreased and pre-treated for optimal performance. Suitable pre-treatment includes:

Aluminium	Yellow chromate or green chromate/phosphate	(refer AS3715 and/or BS6496)
Ferrous metals	Zinc phosphate or Iron phosphate	(refer BS6497)
Zinc Coated Metals (eg. galvanising)	Zinc phosphate or chromate	(refer BS6497)

#### Application Procedure and Equipment

- 1a) For fluidised bed, ensure uniform fluidisation of powder. Fluidised powder should resemble “simmering liquid”. Aged or compacted powder may require pre-conditioning for several minutes to fluidise evenly.
- 1b) For box feeders, ensure probe is fully inserted in powder and operated as per manufacturer’s recommendations.
2. Apply by electrostatic spray.
3. Cure as per recommendations outlined above.
4. Test for cure of the coating by contact with a drop of Corsol PGMA (available from DGL Camel Powder Coatings) for 30 seconds. Surface should be wiped dry and immediately checked for softening. Only slight surface softening should occur.



**Copol<sup>®</sup>**

### Care and Maintenance

To maintain the attractive appearance of the **Copol** film, it should be regularly washed with warm water and mild liquid detergent, followed by a fresh water rinse.

The use of abrasive cleaners is not recommended, nor is the use of active organic solvents.

### Health and Safety

The MSDS is an integral part of using this product as it contains information on the potential health effect of exposure, personal protective equipment needed and other relevant SH&E information.

For detailed information, refer to product label and the current Chemical Data Sheet (No. 13542501) available through Sales and Customer Service Offices.

Phone: 86 769 8755 8778

### Precautions and Limitations

- As a result of possible wide application variations and stoving conditions, **Copol** may show variation between DGL Camel Powder Coatings prepared samples and production applied material. Therefore, it is the applicator and/or their customer's responsibility to ensure the product conforms to their requirements.
- For optimum corrosion performance ensure recommended dry film thickness is obtained.
- Not recommended for use in highly corrosive environments such as severe marine or industrial locations.
- Not recommended for exterior applications.

### Transport and Storage

<b>Sizes:</b>	20 kg	<b>Flashpoint:</b>	N/A
<b>Weight:</b>	20 kg	<b>UN:</b>	N/A
<b>Dangerous Goods Class:</b>	N/A	<b>Package Group:</b>	N/A
<b>Shipment Name:</b>	Not dangerous goods. No special transport requirements.		

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