

## Dupol

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# Durable Polyester Powder Coating

**Product Code:** 954 Line

**Specification met:** Meets and/or exceeds requirements of AS3715, BS6496, AAMA2603.2002

### Description

**Dupol** is a tough thermosetting polyester powder coating with decorative and durability characteristics suitable for interior and exterior product applications which exhibit excellent overall performance.

### Features

### Benefits

Tough, one coat finish	Versatile
Interior/exterior applications	Suitable for most environments
Film integrity	Long intact life of coating
No solvents or emissions	Less waste and pollution to the environment

### Uses

**Dupol** 954 was developed primarily for use on aluminium, including window and door joinery, and extruded aluminium panel work on residential and light commercial buildings.

### Performance Guide

<b>Weather</b>	Good resistance to weathering. Suitable for outdoor applications.	<b>Salt Spray</b>	1000 hours on pre-treated aluminium.
<b>Heat</b>	Excellent resistance to 120°C continuous service conditions.	<b>Humidity</b>	Good resistance to 38°C/100% humidity for 1000 hours on pre-treated aluminium.
<b>Acid</b>	Resistant to spills of dilute acid. Avoid contact.	<b>Abrasion</b>	Good resistance to abrasion.
<b>Alkali</b>	Resistant to spills of dilute alkali. Avoid contact.	<b>Pencil Hardness</b>	Min H
<b>Flexibility</b>	Excellent > 160 inch/lb	<b>Knoops Hardness</b>	Average 15
		<b>Cross Hatch Adhesion</b>	No removal
<b>Chemical Resistance</b>			
<b>Mortar</b>	Resistant	<b>White Spirits</b>	Resistant
<b>Ethanol</b>	Resistant	<b>Xylene</b>	Slight softening/limit contact
<b>Methyl Ethyl Ketone</b>	Softens/avoid contact	<b>Ethyl Acetate</b>	Softens/avoid contact

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### Product Guide

<b>Colour</b>	A range of stock and made to order solid colours	<b>Specific gravity</b>	1.3 - 1.7 @ colour
<b>Gloss Level</b>	25 - 98% at 60°, as required	<b>Shelf life</b>	12 months when stored below 30°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>	
	210	8	
	200	10	
	180	15	
<b>Cured Film Thickness</b>	Recommended:	80 µm	
	Range:	50 – 120 µm	

Note: Light colours may require a higher minimum film build for optimum coverage and colour consistency.

#### Theoretical spreading rate at recommended film thickness

A coverage rate of 8 - 10m<sup>2</sup>/kg corresponds to 80µm cured film thickness assuming no loss. Practical spreading rates will vary due to such factors as method and conditions of application and surface profile and texture.

### Application Guide

#### Surface Preparation

Surfaces should be prepared according to appropriate standards such as AS3715, BS6496, AAMA2603.2002

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)

#### 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 solvent (available from Orica Camel Powder Coatings) for 30 seconds. Surface should be wiped dry and immediately checked for softening. Only slight surface softening should occur.

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### *Care and Maintenance*

As a general rule, cleaning of externally located powder coating surfaces must take place every six months. Where salts/pollutants are more prevalent such as seaside and industrial areas, a cleaning program should be carried out more frequently.

#### THREE STEPS TO CLEANING POWDER COATED SURFACES

1. Remove loose deposits with a wet sponge (avoid scratching the surface by dry dusting).
2. Using a soft clean cloth and a mild detergent in warm water, clean the powder coating to remove dust, salt or other deposits.
3. Always rinse after cleaning with fresh water to remove any remaining detergent.

**WARNING:** In some cases, strong solvents recommended for thinning various types of paints and also for cleaning up mastics/sealants are harmful to the extended life of the powder coated surface. These solvents should not be used for cleaning purposes. If paint splashes or sealants/mastics need to be removed then the following solvents can be used safely: Methylated Spirits, Turpentine, White Spirits, Ethyl Alcohol, Isopropanol.

### *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. 13542403) available through Sales and Customer Service Offices.

Phone: PRC 86 769 8755 8778

### *Precautions and Limitations*

- As a result of possible wide application variations and stoving conditions, some products and colours may show variation between Orica 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 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 components which are exposed to constant temperatures exceeding 120°C.



## Dupol

### Transport and Storage

<b>Sizes:</b>	20kg	<b>Flash Point:</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.		

Orica Camel Powder Coatings (Dongguan) Ltd Yan Tian District, Feng Gang Dong Guan, Guang Dong PRC	Dulux Powder Coatings 51 Winterton Road Clayton, Victoria, 3168 Australia ACN 004 117 828	Orica Powder Coatings 31B Hillside Road Glenfield, Auckland New Zealand
<b>Telephone:</b> 86 769 8755 8778	61 3 9542 4500	64 9 441 8244
<b>Fax:</b> 86 769 8756 9339	61 3 9542 4542	64 9 441 8242

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