

Dulux Powder Coatings Precious®

AU_DP01833

Product Code	971 Line
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Description

Precious® Pearl™ is a one coat dry blended pearlescent-rich powder coating that produces an attractive finish and tough serviceable surface without the need for a clear coat.
 Precious® Kinetic is a one coat bonded pearlescent-rich powder coating that produces an attractive finish and tough serviceable surface without the need for a clear coat.

Features And Benefits

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| <ul style="list-style-type: none"> • Pearlescent rich coating • Colour chart colours • Tough, one coat finish • Interior/Exterior applications • Low cure/high transfer efficiency • No solvents or emissions | <ul style="list-style-type: none"> • Attractive coating for various applications • Readily available colour range • Hard wearing/serviceable finish • Suitable for most environments • Reduced application costs • Less waste and pollution to the environment |
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Uses

Precious Pearl™ is suitable for a wide range of interior and exterior applications using various substrates including steel and aluminium. Examples include: bicycles, garden tools, lawn mowers, indoor furniture, office fittings and barbecue frames.

Precautions And Limitations


- Some strong, bold colours may not meet performance criteria for weathering (colour change), refer to Dulux Powder Coatings before specifying.
- As a result of possible wide application variations and stoving conditions, some products and colours may show variation between Dulux 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.

Performance Guide

Exterior Durability	Good resistance to weathering. Suitable for outdoor applications.	Salt	Good. < 3mm adhesion loss at scribe after 250 hrs salt spray on pre-treated steel, 1000 hrs pre-treated aluminium.
Heat Resistance	Good resistance to 120°C continuous service conditions	Water	Good resistance to 38°C/100% humidity for 1000 hours on pre-treated aluminium.
Abrasion	Very good resistance to abrasion.	Acid	Resistant to spills of dilute acid. Avoid contact.
Alkali	Resistant to spills of dilute alkali. Avoid contact.		

Typical Properties															
Gloss Level	30 - 90% at 60°, as required	Coverage	8 - 10m ² /kg corresponds to 80 microns 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.												
Shelf Life	12 months when stored below 30°C/dry conditions	V.O.C Level	N/A												
Colour	A standard range of solid colours. Special colours available on a made to order basis														
Meets GBCA VOC Requirement?	Yes. Dulux Powder Coatings: <ul style="list-style-type: none"> ▪ Contain no harmful volatile organic solvents ▪ Free of heavy metal pigments such as lead, cadmium, arsenic & mercury ▪ Proven low temperature curing technology ▪ Produced with stringent Safety, Health & Environmental policies and standards ▪ Developed with consideration of life cycle analysis, to guide our suppliers and the materials we use ▪ Manufactured in facilities where significant energy and resources employed in production, are measured with aggressive reduction targets in place ▪ Produced and used with minimal waste Consequently, Dulux ® Powder Coatings are a prime consideration for projects where air quality standards have been set, such as 4, 5 & 6 Green Star Rating Projects.														
Film Build (microns)	Minimum 60 microns, Maximum 110 microns	Clean Up	Dust or vacuum loose powder. Avoid use of compressed air												
Application Method	Electrostatic Spray	Specific Gravity	1.37 - 1.56 @ colour												
Flexibility	Excellent < or = 160 in/lb	Pencil Hardness	Min H												
Knoop Hardness	Min 15	Cross Hatch Adhesion	No removal												
Chemical Resistance	<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">Motar</td> <td>Resistant</td> </tr> <tr> <td>White Spirits</td> <td>Resistant</td> </tr> <tr> <td>Ethanol</td> <td>Resistant</td> </tr> <tr> <td>Xylene</td> <td>Slight softening/limit contact</td> </tr> <tr> <td>Methyl Ethyl Ketone</td> <td>Softens/avoid contact</td> </tr> <tr> <td>Ethyl Acetate</td> <td>Softens/avoid contact</td> </tr> </table>			Motar	Resistant	White Spirits	Resistant	Ethanol	Resistant	Xylene	Slight softening/limit contact	Methyl Ethyl Ketone	Softens/avoid contact	Ethyl Acetate	Softens/avoid contact
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Cure Schedule	Metal Temperature (°C)	Time (minutes)	Comments												
	210	4 Mins													
	200	5 Mins													
	180	8 Mins													

Application Guide	
Surface Preparation	<ul style="list-style-type: none"> Surfaces should be prepared according to appropriate standards such as AS/NZS4506, AS3715, BS6496, BS6497 (available from Standards Australia or Standards New Zealand offices). <p>All surfaces should be degreased and pre-treated for optimal performance. Suitable pre-treatment includes:</p> <p>Aluminium Yellow chromate or green chromate/phosphate (refer AS3715-2002 and/or BS6496)</p> <p>Ferrous metals Zinc phosphate or Iron phosphate (refer BS6497)</p> <p>Zinc Coated Metals Zinc phosphate or chromate (refer BS6497) (eg. galvanising)</p> <p>Stainless Steel Suitable metal blast. Recommended maximum blast profile of 25 microns</p>
Application Procedure And Equipment	<ul style="list-style-type: none"> 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) Box feeders are not recommended for the application of these powder coatings. 2. Apply by electrostatic spray. 3. Cure as per recommendations outlined above. <p>Care should be exercised when stoving temperatures are in excess of 220°C as these high temperatures may affect the appearance and film integrity of the finish.</p> <ul style="list-style-type: none"> 4. Test for cure of the coating by contact with a drop of Corsol PGMA (available from Dulux Powder Coatings) for 30 seconds. Surface should be wiped dry and immediately checked for softening. Only slight surface softening should occur. <ul style="list-style-type: none"> Electrostatic spray.

Spray Application Guide	
Thinner 	Not applicable

Care And Maintenance
<p>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.</p> <p>THREE STEPS TO CLEANING POWDER COATED SURFACES</p> <ol style="list-style-type: none"> Remove loose deposits with a wet sponge (avoid scratching the surface by dry dusting). Using a soft clean cloth and a mild detergent in warm water, clean the powder coating to remove dust, salt or other deposits. Always rinse after cleaning with fresh water to remove any remaining detergent. <p>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.</p>

Health And Safety			
MSDS Number	4993, 0	Safety Precautions	<p>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.</p> <p>For detailed information, refer to product label and the current Chemical Data Sheet (No. 4993) available through Sales and Customer Service Offices.</p> <p>Phone: Australia:- 13 24 99</p>
Health Effects	Chemical Data Sheet No. 4993		
In the case of emergency, please call 1800 033 111			

Transport And Storage			
Package Weight	20 Kg	Shipment Name	Not dangerous goods.No special transport requirements.
Flash Point	N/A	UN Number	N/A
Dangerous Goods Class	N/A	Package Group	N/A

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