

DULUX Precious® Pearl

PRODUCT CODE 971 LINE

Data Sheet No. AUDP0558

APPROVALS

Description

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

Features

Pearlescent rich coating
 Colour chart colours
 Tough, one coat finish
 Interior/Exterior applications
 Low cure/high transfer efficiency
 No solvents or emissions

Benefits

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

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.

Performance Guide

Weather	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	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.		

Data Sheet	DULUX Precious® Pearl		
DuSpec Data Code	AUDP0558	Page No	1 of 4
Issue No	15.0	Date Issued	01/11/2011

DULUX Precious® Pearl

Data Sheet No. **AUDP0558**

Typical Properties and Application Data

Gloss Level	30 - 90% at 60°, as required	Spread Rate	8.4 sqm/kg
Components	1	Colour	A standard range of solid colours. Special colours available on a made to order basis
Shelf life	12 months when stored below 30°C/dry conditions	Pot Life	Not applicable
Wet film per coat	Min 0 Max 0 Recom 0 µm	Clean Up	Dust or vacuum loose powder. Avoid use of compressed air.
Dry film per coat	Min 60 Max 100 Recom 80 µm	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	Mortar - Resistant Ethanol - Resistant Methyl Ethyl Ketone - Softens/avoid contact	White Spirits - Resistant Xylene - Slight softening/limit contact Ethyl Acetate - Softens/avoid contact	
Cure Schedule	Metal Temperature (°C)	Time (minutes)	
	210	4 minutes	
	200	5 minutes	
	180	8 minutes	

Application Guide

Surface Preparation

Surfaces should be prepared according to appropriate standards such as AS/NZS4506, AS3715, BS6496, BS6497 (available from Standards Australia or Standards New Zealand offices).

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

Aluminium	Yellow chromate or green chromate/phosphate	(refer AS3715-2002 and/or BS6496)
Ferrous metals	Zinc phosphate or Iron phosphate	(refer BS6497)
Zinc Coated Metals (eg. galvanising)	Zinc phosphate or chromate	(refer BS6497)
Stainless Steel	Suitable metal blast. Recommended maximum blast profile of 25 microns	

Application Procedure and Equipment

Electrostatic spray.

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.

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.

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.

Data Sheet	DULUX Precious® Pearl		
DuSpec Data Code	AUDP0558	Page No	2 of 4
Issue No	15.0	Date Issued	01/11/2011

DULUX Precious® PearlData Sheet No. **AUDP0558****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

MSDS Number 4993

Using Safety Precautions 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. 4993) available through Sales and Customer Service Offices.
Phone: Australia:- 13 24 99

In the case of emergency please call 1800 033 111

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 customers 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.

Transport and Storage

Pack A	971 LINE	Flash point	NA
Sizes	2.5 kg or 20 kg	UN Number	NA
Weight	2.5 kg or 20 kg	Package Group	NA
Dangerous Goods Class	NA		
Shipment Name	Not dangerous goods.No special transport requirements.		

Data Sheet	DULUX Precious® Pearl		
DuSpec Data Code	AUDP0558	Page No	3 of 4
Issue No	15.0	Date Issued	01/11/2011



DATA SHEET



DULUX Precious® Pearl

Data Sheet No. AUDP0558

Disclaimer

Dulux and Other marks followed by ® are registered trademarks. Marks followed by the symbol of ™ are trademarks.

The data provided within the Duspec system is correct at the time of publication, however it is the responsibility of those using this information to check that it is current prior to specifying or using any of these coating systems.

DISCLAIMER: Any advice, recommendation, information, assistance or service provided by any of the divisions of DuluxGroup (Australia) Pty Ltd or its related entities (collectively, DuluxGroup) in relation to goods manufactured by it or their use and application is given in good faith and is believed by DuluxGroup to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by DuluxGroup is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon DuluxGroup by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Coating systems can be expected to perform as indicated on the Duspec Spec Sheet so long as applications and application procedures of the individual products are followed as recommended on the appropriate Product data Sheet. "DuluxGroup" "Dulux" "Berger" "Berger Gold Label" "Hadrian" "Walpamur" "Levene" "Acratex" and Other marks followed by ® are registered trademarks of DuluxGroup (Australia) Pty Ltd ABN 67 000 049 427. Marks followed by the symbol ™ are trademarks.

Please note that this document is only valid for 60 days from the date of issue.

DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton, Victoria 3168 AU ABN 67 000 049 427

Data Sheet	DULUX Precious® Pearl		
DuSpec Data Code	AUDP0558	Page No	4 of 4
Issue No	15.0	Date Issued	01/11/2011