

Dulux Powder Coatings Surreal® Effects Mannex

AUDP1590

Product Code	901 line
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Description

Previously known as DULUX Surreal® Effects - Mannex

The Surreal® Effects range of products includes textures, ripples, metallic and hammer finishes, where the surface characteristics exhibit a decorative and appealing patterned effect, combined with excellent overall performance.

The use of powder coatings containing metallic pigments for exterior decoration and interior areas exposed to high wear needs to be carefully evaluated, as metallic pigments may tarnish. Dulux Powder Coatings recommend a clear top coat be applied for these applications. The Sarouk range - also called Scylla - is designed for interior use only.

Features And Benefits

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| <ul style="list-style-type: none"> ▪ Specialty finishes ▪ Tough finish ▪ No solvents or emissions ▪ TGIC free | <ul style="list-style-type: none"> ▪ Highly decorative and appealing ▪ Hard wearing (Metallics require clear top coat) ▪ Less waste and pollution to the environment ▪ Reduced risk to health |
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Uses

Surreal® Effects decorative finishes may be used for many applications over various substrates including steel and aluminium. Examples include: office fittings and furniture, tool boxes, automotive components.

Precautions And Limitations

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.

For optimum performance, it is highly recommended that the Application Notes for these specialty finishes be referred to. Request a copy from your Dulux Powder Coatings Representative.

Performance Guide

Exterior Durability	Good resistance to weathering. However, not recommended for outdoor applications where a high degree of corrosion resistance is required.	Salt	Good. < 3mm adhesion loss at scribe after 250 hours salt spray on pre-treated steel, 1000 hours on 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.
Solvent	Resistant to alcohol and white spirits.	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	Ranging from matt to full gloss.		Coverage	8 - 10m ² /kg corresponds to 80 microns cured film thickness											
Shelf Life	12 months when stored below 25°C/dry conditions.		Colour	A wide range of made to order colours available.											
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)	Between 80 - 120 micrometres		Clean Up	Dust or vacuum loose powder. Avoid use of compressed air.											
Application Method	Electrostatic Spray		Specific Gravity	1.50 - 1.66 @ colour											
Flexibility	Excellent < or = 160 inch/lb		Pencil Hardness	Min H											
Knoop Hardness	Average 15		Cross Hatch Adhesion	No Removal											
Chemical Resistance	<table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">Mortar</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>			Mortar	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) 180	Time (minutes) 8	Comments												

Application Guide

Surface Preparation	<ul style="list-style-type: none"> Application of specialty finish powder coatings is more demanding than conventional types of powder coatings. Refer to relevant Application Notes for additional information. <p>Surfaces should be prepared according to appropriate standards such as AS/NZS4506, AS3715-2002, BS6496, BS6497 (available from Standards Australia or Standards New Zealand offices).</p> <p>All surfaces should be degreased and pre-treated for optimal performance.</p> <p>Suitable pre-treatment includes: 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 Steels - (eg. galvanising) Zinc Phosphate or chromate (refer BS6497)</p> <p>Stainless Steel - Suitable metal blast. Recommended maximum blast profile of 25microns.</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. <p>2 Apply by electrostatic spray.</p> <p>3 Cure as per instructions on box. Care should be exercised when stoving temperatures are in excess of 210°C as these high temperatures may affect the appearance and film integrity of the finish.</p> <p>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.</p> <ul style="list-style-type: none"> Due to the structure of the finishes, the film build is critical to both the aesthetic and functional characteristics of the film. <p>Where an inadequate film thickness is applied, the pattern development will be unsatisfactory. There will also be thin spots in the film, which provide a site for early corrosion as well as giving a patchy, low opacity visual effect.</p> <p>Where excessively thick films are applied the pattern will be less structural and visually different.</p> <p>Theoretical spreading rate at recommended film thickness: A coverage rate of 8 - 10m²/kg corresponds to 80microns 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.</p> <ul style="list-style-type: none"> Electrostatic spray.

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, White Spirits, Ethyl Alcohol, Isopropanol. Do not use any solvent directly on a metallic finish as it will stain the coating.

Health And Safety

MSDS Number	13960123	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. 13960123) available through Sales and Customer Service Offices. Phone: Australia:- 13 24 99
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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	NA	UN Number	NA
Dangerous Goods Class	NA	Package Group	NA

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