

DULUX Surreal® Effects - Scylla

PRODUCT CODE 901 line

Data Sheet No. AUDP1478

APPROVALS

Description

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

Benefits

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| Specialty finishes | Highly decorative and appealing |
| Tough finish | Hard wearing (Metallics require clear top coat) |
| No solvents or emissions | Less waste and pollution to the environment |
| TGIC free | Reduced risk to health |

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.

Performance Guide

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| Weather | 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 | 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 and Application Data

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| Gloss Level | Ranging from matt to full gloss. | Spread Rate | 6.44 sqm/kg |
| Components | 1 | Colour | A wide range of made to order colours available. |
| Shelf life | 12 months when stored below 25°C/dry conditions. | Wet film per coat | Min 80 Max 0 Recom 0 µm |
| Clean Up | Dust or vacuum loose powder. Avoid use of compressed air. | Dry film per coat | Min 80 Max 120 Recom 100 µm |
| Application Method | Electrostatic spray. | Specific Gravity | 1.47 - 1.59 @ colour |
| Flexibility | Excellent < or = 160 inch/lb | Pencil Hardness | Min H |
| Knoop Hardness | Average 15 | Cross hatch adhesion | No Removal |
| Chemical resistance | 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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Application Guide**Surface Preparation**

Application of specialty finish powder coatings is more demanding than conventional types of powder coatings. Refer to relevant Application Notes for additional information.

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).

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 Steels - (eg. galvanising) Zinc Phosphate or chromate (refer BS6497)

Stainless Steel - Suitable metal blast. Recommended maximum blast profile of 25microns.

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 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.

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.

Notes

Due to the structure of the finishes, the film build is critical to both the aesthetic and functional characteristics of the film.

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.

Where excessively thick films are applied the pattern will be less structural and visually different.

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.

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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, 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

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. 13960123) 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

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.

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.

Transport and Storage

Pack A 901 line

Sizes 20 Kg

Weight 20 Kg

Dangerous Goods Class NA

Shipment Name Not dangerous goods. No special transport requirements.

Flash point NA

UN Number NA

Package Group NA

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