AUDU00103 Dulux Metalshield Epoxy Enamel Gloss

Introduction

Part A
31A-LINE

Approvals
N/A

Description and Image

Dulux Metalshield Epoxy Enamel Gloss is a heavy duty topcoat that is ideal for protecting and decorating metal surfaces. Dulux Metalshield Epoxy Enamel provides a convenient solution where no primer is required over new bare steel, wrought iron or pre-painted metal surfaces. Use in combination with Metalshield primers for industrial strength metal protection.



Features and Benefits

- No primer required for new bare steel and wrought iron or pre-painted metal surfaces
- Interior/Exterior
- Protects against rust and corrosion
- Ideal for metal gates, fences, outdoor furniture, gutters, downpipes and railings
- Full gloss finish
- Resists knocks and scratches
- Can be tinted to an extensive range of Dulux colours

Uses

Use Dulux Metalshield Epoxy Enamel Gloss as a topcoat for suitably prepared metal substrates.

Precautions and Limitations

Do not apply externally when weather is doubtful, or late in afternoon during winter, as frost, rain or dew on the uncured film may result in complete loss of gloss or patchiness, and impair durability.

Tinter, if added, should be shaken and stirred in immediately and thoroughly.

All enamels will yellow with age. This can be accelerated by darkness, heat and exposure to ammonia from freshly painted acrylic paints and some cleaning agents, particularly during the drying period.

Performance Guide	
Weather **Good weather resistance, may show tendency to chalk after several years.**	Salt **Resists salt spray**
Heat Resistance **Up to 120°C. Premature yellowing and embrittlement will occur if film subjected to continuous heat.**	Water **Resists rain and condensation for prolonged periods**
Solvent **Resists alcohol and aliphatic hycarbons. Film is liable to attack from other strong solvents**	Abrasion **Excellent resistance to abrasion**

Typical Properties	
Gloss Level **85 - 100 at 60 degrees**	Thinner **Metalshield Brush Thinner or Metalshield Spray Thinner**
Colour **10 pre-packaged colours including Colorbond(R) colours. 4 tint bases and 3 coloured bases.**	
Dulux Colour Base ✓ **Indian Red** ✓ **Deep** ✓ **Brunswick Green** ✓ **Ultra Deep** ✓ **Mission Brown** ✓ **Extra Bright** ✓ **Blue** ✓ **Black**	
Components **1**	Number of Coats **2**
Toxicity **Lead Free. Dry film is non toxic**	V.O.C. Level **< 415 g/L**
Clean Up **Thinner**	
Clean Up Description Clean equipment with Metalshield Brush Thinner or Metalshield Spray Thinner	
Application Methods **Air Spray** **Airless Spray** **Brush** **Roller**	

Application Conditions	Solids by Volume		
	50		
	Min	Max	Recommended
Wet Film Per Coat (microns)	65	65	65
Dry Film Per Coat (microns)	34	34	34
Recoat Time (min/hours)	24 Hr	Indefinite	
Theoretical Spread Rate (m²/L)	14.71	14.71	14.71

Application Guide

Surface Preparation

Pre-painted metal surfaces
Scrap off all loose and flaking paint. Sand all surfaces to a flat finish. Dust off. If previously painted metal surface is in good condition then no primer is required. Treat any bare metal as below.

Aged/Lightly rusted surfaces
Remove any rust by scraping, sanding or wire brushing. Wipe surface with Metalshield Brush thinner to remove any residual grease, oils and dirt. Once dry, apply 1coat of Metalshield All Surface Primer.

New Bare Steel and Wrought Iron
Wipe surface with Metalshield Brush Thinner to remove any residual grease, oils and dirt. Then abrade with a Scotch-Brite(R) Pad. Wipe clean. Galvanised Iron, Zincalume(R): Clean surface with sugar soap and a Scotch-Brite(R) Pad to remove any grease, oils and dirt. Rinse with clean water. Once dry, apply 1 coat of Metalshield RFU Etch Primer.

Aluminium, Copper, Brass, Stainless Steel
Clean surface with sugar soap and a Scotch-Brite(R) Pad to remove any grease, oils and dirt. Rinse with clean water. Once dry, apply 1 coat of Metalshield All Surface Primer.

Ensure the surface has thoroughly dried prior to application. This product is ideal for domestic applications. For highly corrosive environments and for commercial applications refer to duspec.com.au or duspec.co.nz for appropriate specifications.

Application Procedure and Equipment

Brush, roller, conventional or airless spray
Stir contents thoroughly before and during use with a broad flat stirrer, using an upward lifting action.

Brush/Roller
Apply two full coats to the prepared surface. Thinning is not usually required. Airless/Conventional Spray: Suitable for application by all standard spray equipment. If necessary thin with up to 100 ml/litre of Metalshield Spray Thinner or Metalshield Brush Thinner.

Application and drying temperatures must be above 10C. Drying times at 25C and 50% RH
Touch Dry 4 Hours, Re-coat 24 Hours.

Thinning can reduce the rust inhibiting performance of Metalshield Epoxy Enamel.

Health and Safety

SDS Number	SDS Link
23007	**View SDS Link**

Please refer to SDS Link. In case of emergency, please call 1800 220 770.

Transport and Storage

Pack A
31A-LINE

Size:	Weight:
500 mL, 1L, 4L	**0.8Kg, 1.3Kg, 4.6Kg**

Flash Point	UN Number
>23°C	**1263**
Dangerous Goods Class	Package Group
3	**III**

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The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS 4361 Parts 1 and 2 and Worksafe Australia guidelines.