AUDU00106 Dulux Metalshield Epoxy Enamel Satin

Introduction

Part A
31B00070

Approvals
N/A

Description and Image

Dulux Metalshield Epoxy Enamel Satin Black is a heavy duty topcoat that is ideal for protecting and decorating metal surfaces. Dulux Metalshield Epoxy Enamel Satin Black 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
- Available in Black
- Protects against rust and corrosion
- Interior / Exterior
- Ideal for metal gates, fences, outdoor furniture, gutters, downpipes and railings
- Satin finish
- Resists knocks and scratches

Uses

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

Precautions and Limitations

All preparation and painting must conform to AS2311: The Painting of Buildings.
Do not tint.

Do not apply if the surface temperature is below 10 degrees or when the temperature of surface may fall below10 degrees during the drying period.

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 variable sheen and patchiness, and impair durability.

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 **Very good resistance to splash and spillage of non-caustic salt solution**
Heat Resistance **Up to 120C. Premature yellowing and embrittlement will occur if film is subjected to 120C continuously**	Water **Excellent resistance to condensation and water splash**
Solvent **Resists alcohol and aliphatic hydrocarbons. Film is liable to attack from other strong solvents like xylene and ketones.**	Abrasion **Excellent**
Acid **Fair**	Alkali **Fair**

Typical Properties	
Gloss Level **35-50 at 60 degrees**	Thinner **Metalshield Spray Thinner or Metalshield Brush Thinner**
Colour **Black**	
Dulux Colour Base ✓ **Black**	
Components **1**	Number of Coats **2**
Toxicity **Lead free. Dry film is non-toxic**	V.O.C. Level **< 430g/L untinted**
Shelf Life **Minimum 2 years in unopened containers. Will require agitation prior to use**	Meets GBCA V.O.C. Requirements? **No**
Sanding Properties **Sandable once cured (After 7 days)**	Mixing Ratio **N/A - single component air drying**
Pot Life **Indefinite when kept in a closed container away from Oxygen**	Touch Dry **4 hours at 25C and 50% Relative Humidity**
Clean Up **Thinner** Clean equipment with Metalshield Brush Thinner or Metalshield Spray Thinner or Mineral Turpentine	
Clean Up Description Clean all equipment with Metalshield Brush Thinner or Metalshield Spray Thinner or Mineral Turpentine.	
Application Methods **Air Spray** **Airless Spray** **Brush** **Roller**	

Application Conditions	Solids by Volume		
	50		
	Min	Max	Recommended
Wet Film Per Coat (microns)	64	64	64

Dry Film Per Coat (microns)	32	32	32
Recoat Time (min/hours)	24 Hours	Indefinite	
Theoretical Spread Rate (m²/L)	15.62	15.62	15.62

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 mild detergent and a Scotch-Brite(R) Pad to remove any grease, oils and dirt. Rinse with clean water. Once dry, apply 1 coat of Metalshield Etch Primer.

Galvanised Iron, Zincalume(R)
Clean surface with mild detergent 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 and airless spray
Stir contents thoroughly with a broad flat stirrer using a stirring, lifting action.

Brush/Roller
This product can be applied by brush or roller straight from the can. Apply two full coats allowing 16 hours dry followed by light sanding between coats. Thinning is not usually required however if necessary 50mL per litre of Metalshield Brush Thinner may be added to ease application.

Airless/Conventional Spray
Suitable for application by all standard spray equipment. Apply wet even coats. Up to 100mL per litre of Metalshield Brush Thinner or Metalshield Spray Thinner may be added to aid atomisation for application by conventional spray and up to 30mL per litre for application by airless spray.

Application and drying temperature must be above 10C.

Health and Safety

SDS Number	SDS Link
DLXGHSEN001424	**View SDS Link**

Using Safety Precautions

Personal Protection Equipment

Wear overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

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

Transport and Storage

Pack A

31B00070

Size:	Weight:
500 ml 1 Litre 4 Litre	**0.7 Kg 1.4 Kg 5.2 Kg**

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.