

Metalshield® Premium Aluminium

Aluminium Flake Alkyd Enamel

- FEATURES**
- CONTAINS ALUMINIUM FLAKE
 - EASY TO APPLY
 - SINGLE PACK FINISH
 - RESISTS TEMPERATURES UP TO 200°C
 - EXCELLENT REFLECTIVE PROPERTIES
 - EXCELLENT WEATHERING RESISTANCE

- USES**
- METALSHIELD® PREMIUM ALUMINIUM is an alkyd enamel paint pigmented with metallic flake.
 - METALSHIELD® PREMIUM ALUMINIUM is easy to apply to a range of suitably primed metal substrates, such as mild steel, galvanised steel and aluminium, and offers a high metallic finish.
 - METALSHIELD® PREMIUM ALUMINIUM is typically used over conventional or epoxy metal primers on externals of metal tanks, corrugated metal roofing, gates, fences, ducting and miscellaneous steelwork.

RESISTANCE GUIDE

WEATHERABILITY	Very good compared to conventional alkyd enamels	SOLVENTS	Resists splash and spillage of aliphatic hydrocarbons
HEAT RESISTANCE	Up to 200°C dry heat	WATER	Resists rain and condensation. Not recommended for permanently damp or immersed exposure.
SALTS	Excellent resistance to neutral salt solutions	ALKALIS	Not recommended where fumes, splash or spillage may occur
ACIDS	Not recommended where fumes, splash or spillage may occur	ABRASION	Good when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Heat resisting aluminium enamel	
FINISH	Metallic	
COLOUR	Bright Aluminium	
COMPONENTS	One	
VOLUME SOLIDS	34%	
VOC LEVEL	<490 g/L	
FLASH POINT	-3°C	
POT LIFE	Not applicable	
THINNER – BRUSH	965-H0010	Metalshield® Brush Thinner
THINNER – SPRAY	965-H0009	Metalshield® Spray Thinner
PRODUCT CODE	384-63008	Aluminium

APPLICATION CONDITIONS

	Min	Max
Air Temp.	5°C	40°C
Surface Temp.	5°C	40°C
Relative Humidity		85%
Concrete Moisture		

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet Film Per Coat (µm)	45	75	60
Dry Film Per Coat (µm)	15	25	20

SUITABLE SUBSTRATES	Suitably primed steel, aluminium and primed zinc coated steel
PRIMERS	Most Dulux® alkyd and two pack primers
TOPCOATS	Not applicable
APPLICATION METHODS	Air Spray, Airless Spray, Brush, Roller

DRYING CHARACTERISTICS AT 20 µm DRY FILM THICKNESS

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max
25°C	50%	4-6 Hours	16 Hours	7 Days	16 Hours	Extended

The drying figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

SPREADING RATE

assuming no losses

17 square metres per litre equals 20 µm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

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TYPICAL SYSTEMS

This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux Protective Coatings Consultant.

SURFACE	ENVIRONMENT	PREPARATION GUIDE	SYSTEM	DFT (µm)	
STEEL – NEW	Mild – Medium corrosivity (AS2312.1 Cat C2-4)	Power tool clean AS1627.2, Abrasive blast AS1627.4	1st Coat	Metalshield® High Build ZP Primer	50 µm
			2nd Coat	Metalshield® Premium Aluminium	20 µm
			3rd Coat	Metalshield® Premium Aluminium	20 µm
STEEL – NEW	Heat resistance only	Power tool clean AS1627.2, Abrasive blast AS1627.4	1st Coat	Metalshield® Premium Aluminium	20 µm
			2nd Coat	Metalshield® Premium Aluminium	20 µm
ALUMINIUM	Exterior/Interior	Clean, degrease and abrade surface	1st Coat	Luxepoxy® 4 White Primer	50 µm
			2nd Coat	Metalshield® Premium Aluminium	20 µm
			3rd Coat	Metalshield® Premium Aluminium	20 µm

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity. For steelwork in moderate to severe corrosivity environments, a heavy duty protective coating system is recommended. Refer to a Dulux Protective Coatings Consultant.

SURFACE PREPARATION	<p>Steel: Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other contaminants in accordance with AS1627.1. Degrease with Gamlen CA 1 according to the data sheet and SDS. Abrasive blast clean to a minimum of AS1627.4 Class 2.5. Remove all dust.</p> <p>Steel where abrasive blast cleaning is not viable: Rust, millscale, oxide deposits and old paint films on metal surfaces must be removed by power tool cleaning according to AS1627.2 Class 2. Coating performance is proportional to the degree of surface preparation.</p> <p>Non-ferrous metals: Round off all sharp edges. Remove grease, oil and other contaminants in accordance with AS1627.1. Whip blast with fine non-metallic media to provide a key. Remove all dust with compressed air. Alternatively, degrease and abrade the surface with a non-metallic abrasive pad wetted with Gamlen CA 1 and water. Rinse thoroughly with fresh potable water.</p>																												
APPLICATION	<p>Mix each can thoroughly using a power mixer until the contents are uniform. Remix thoroughly before and occasionally during application to prevent settling.</p>																												
APPLICATION EQUIPMENT	<p>Airless Spray: Standard airless spray equipment such as a Graco Xtreme 30:1 with a fluid tip of 13-15 thou (0.33-0.38mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Thinning is not usually required but up to 50 ml/litre of Metalshield® Spray Thinner (965-H0009) may be added to aid application.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Tip Orifice</th> <th>Atomising Pressure</th> <th>Material Hose ID</th> <th>Pump Manifold Filter</th> </tr> </thead> <tbody> <tr> <td>13-15 thou (0.33-0.38mm)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Conventional Spray: Thin up to 50 ml/litre with Metalshield® Spray Thinner (965-H0009) to aid atomisation. Add only enough thinner to achieve atomisation. Apply in multiple wet coats overlapping each pass 50%.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Gun</th> <th>Fluid Tip</th> <th>Air Cap</th> <th>Air Hose ID</th> <th>Material Hose ID</th> <th>Atomising Pressure</th> <th>Material Pressure</th> </tr> </thead> <tbody> <tr> <td>Graco AirPro</td> <td>1.4mm</td> <td>239542</td> <td></td> <td></td> <td>380-410 kPa (55-60 p.s.i.)</td> <td>70-100 kPa (10-15 p.s.i.)</td> </tr> </tbody> </table> <p>Roller: Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 50 ml/litre with Metalshield® Brush Thinner (965-H0010) to aid application. When rolling additional coats may be required to attain the specified thickness.</p> <p>Brush: Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 50 ml/litre with Metalshield® Brush Thinner (965-H0010) to aid application. When brushing additional coats may be required to attain the specified thickness.</p>							Tip Orifice	Atomising Pressure	Material Hose ID	Pump Manifold Filter	13-15 thou (0.33-0.38mm)				Gun	Fluid Tip	Air Cap	Air Hose ID	Material Hose ID	Atomising Pressure	Material Pressure	Graco AirPro	1.4mm	239542			380-410 kPa (55-60 p.s.i.)	70-100 kPa (10-15 p.s.i.)
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PRECAUTIONS	<p>This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Representative for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Australia. Do not apply at temperatures below 5°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Do not overcoat before the minimum overcoat interval or wrinkling may occur. NOTE: This product must not be directly applied on galvanised iron or zinc rich coatings.</p>																												
CLEAN UP	<p>Clean all equipment with Metalshield® Spray Thinner (965-H0009) immediately after use.</p>																												
OVERCOATING	<p>Degrease with Gamlen CA 1 according to the data sheet. Test adhesion of existing coating by standard cross hatch adhesion test. If the coating fails, remove it. High-pressure water wash at 8.3 - 10.3 MPa (1,200-1,500 p.s.i.) to remove chalk and dust. Abrade surface to provide a good key for the new coating.</p>																												
SAFETY PRECAUTIONS	<p>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (132377) or www.duluxprotectivecoatings.com.au</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <tr> <td>Product Line Shade, Product Name, and SDS Number</td> <td>SDS Link</td> </tr> <tr> <td>384-63008, METALSHIELD PREMIUM ALUMINIUM, DLXGHCEN001368</td> <td>View SDS Link</td> </tr> </tbody> </table>							Product Line Shade, Product Name, and SDS Number	SDS Link	384-63008, METALSHIELD PREMIUM ALUMINIUM, DLXGHCEN001368	View SDS Link																		
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STORAGE	<p>Store as required for a flammable liquid Class 3 in a bonded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times.</p>																												
HANDLING	<p>As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 must be worn while handling and using. Always wash hands before smoking, eating, drinking or using the toilet.</p>																												

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USING	Use with good ventilation and avoid inhalation of spray mists and fumes. When spraying, wear combined organic vapour/particulate respirator. Users must always comply with their respective State Spray Painting Regulations at all times
FLAMMABILITY	This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO ₂ or dry chemical powder. On burning will emit toxic fumes.
WELDING	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

COMPANY INFORMATION		PACKAGING, TRANSPORT AND STORAGE		
Dulux Protective Coatings is a division of		PACKAGING Available in 1 litre and 4 litre cans		
DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427	DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118	TRANSPORTATION WEIGHT	1.08 kg/litre	
		DANGEROUS GOODS	Part A:	Class 3 UN 1263
			Part B:	N/A N/A

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