

# METALSHIELD® PREMIUM

### **ALUMINIUM**

### **Aluminium Flake Alkyd Enamel**

LI 012

- 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 a alkyd enamel paint pigmented with metallic flake.

METALSHIELD® PREMIUM ALUMINIUM is easy to apply and offers a high metallic finish to a range of suitably primed metal substrates, such as mild steel, galvanised steel and aluminium

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 generally.

#### **SPECIFICATIONS**

RESISTANCE GUIDE							
WEATHERABILITY	Very good compared to conventional alkyd enamels	SOLVENTS	Resists splash and spillage of alipha hydrocarbons				
HEAT RESISTANCE	Up to 200°C dry heat		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				

		AND APPLICATION D				
CLASSIFICATION	Heat resisting aluminium enamel		APPLICATION CONDITIONS			
FINISH	Metallic sheen			Min	Max	
COLOUR	Bright Aluminium		Air Temp.	5°C	40°C	
			Substrate Temp.	5°C	40°C	
			Relative Humidity		85%	
COMPONENTS	One					
<b>VOLUME SOLIDS</b>	36% COATING THICKNESS (MICRONS)					
VOC LEVEL	<500 g/L			Min	Max	Recommended
FLASH POINT	-3°C		Wet film per coat (µm)	45	70	55
POT LIFE	Not applicable		Dry film per coat (µm)	15	25	20
MIXING RATIO V/V	Single Pack					
THINNER - BRUSH	965-H0010	Metalshield <sup>®</sup> Brush Thinner	SUITABLE			, aluminium and
THINNER - SPRAY	965-H0009	Metalshield® Spray Thinner	SUBSTRATES	primed zinc coated steel		
PRODUCT CODE	384-63008	Aluminium	PRIMERS	Most Dul primers	lux <sup>®</sup> alkyd	and two pack
			TOPCOATS	Not applic	able	
			APPLICATION METHODS	,	oller, conv ir assisted s	,

### DRYING CHARACTERISTICS AT 20 µm DRY FILM THICKNESS\*

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

<sup>\*</sup>These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

### **SPREADING RATE**

18.0 square metres per litre equals 20 µm dry film thickness

ASSUMING NO LOSSES NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

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## METALSHIELD® PREMIUM ALUMINIUM

### **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	1 <sup>st</sup> Coat Metalshield <sup>®</sup> High Build ZP Pri 2 <sup>nd</sup> Coat Metalshield <sup>®</sup> Premium Alumin 3 <sup>rd</sup> Coat Metalshield <sup>®</sup> Premium Alumin	um 20 µm
STEEL - NEW	Heat resistance only	Power tool clean AS1627.2 Abrasive blast AS1627.4	1 <sup>st</sup> Coat Metalshield <sup>®</sup> Premium Alumin 2 <sup>nd</sup> Coat Metalshield <sup>®</sup> Premium Alumin	
ALUMINIUM	Exterior/Interior	Clean, degrease and abrade surface	1st Coat Luxepoxy® 4 White Primer 2nd Coat Metalshield® Premium Alumin 3rd Coat Metalshield® Premium Alumin	

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.

### **PREPARATION**

SURFACE 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. Steel where abrasive blast cleaning is not viable: Rust, mill scale, 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. 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.

#### APPLICATION

Mix each can thoroughly using a power mixer until the contents are uniform. Remix thoroughly before and occasionally during application to prevent settling.

**BRUSH/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 brushing and rolling additional coats may be required to attain the specified thickness.

CONVENTIONAL

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%.

Graco AirPro: Pressure at Triton 308: 70-100 kPa (10-15 p.s.i.) 380-410 kPa (55-60 p.s.i.) Pressure at Gun:

**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.

**PRECAUTIONS** 

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.

Clean all equipment with METALSHIELD® Spray Thinner (965-H0009) immediately after use.

#### **OVERCOATING**

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 to 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.

### **SAFETY PRECAUTIONS**

Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au

**STORAGE** 

Store as required for a flammable liquid Class 3 in a bunded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times

**HANDLING** 

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,

USING

drinking or using the toilet. Use with good ventilation and avoid inhalation of spray mists and fumes. When spraying, wear combined organic vapour/particulate

**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, CO2 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 a division of PACKAGING Available in 1 litre and 4 litre cans TRANSPORTATION WEIGHT 1.04 kg/litre DuluxGroup (Australia) Ptv Ltd DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road, Lower Hutt, NZ 1956 Dandenong Road, Clayton 3168 DANGEROUS GOODS Class 3 UN 1263 A.B.N. 67 000 049 427 A.B.N. 55 133 404 118

respirator. Users must always comply with their respective State Spray Painting Regulations at all times.

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