

7 Days

24 Hours

# Metalshield® Premium **UV Resistant Gloss Silicone Enamel Topcoat**

LI 011

- FEATURES EXCELLENT GLOSS RETENTION FAR SUPERIOR TO STANDARD ALKYD ENAMELS
  - FASTER DRYING THAN STANDARD SILICONE ALKYD ENAMELS & LONG OIL ALKYDS
  - SINGLE PACK PRODUCT WITH A HIGH GLOSS FINISH
  - TINTABLE AVAILABLE IN OVER 5,000 COLOURS USING THE COLORFAST® TINT SYSTEM

- USES METALSHIELD® PREMIUM is a UV resistant silicone modified enamel topcoat and is an easy to use, high gloss, single pack, air-drying topcoat. Its unique fast dry formulation offers faster turn-around times.
  - METALSHIELD® PREMIUM also has vastly superior weathering properties to that of conventional alkyd enamels. The silicone modification is particularly effective in resisting dirt pick-up from diesel fumes and coal and iron ore dust.
  - Typical areas of use include tank farms, doors, transmission towers, bridge structures and the exteriors of commercial and light industrial buildings.
  - METALSHIELD® PREMIUM has been formulated for use within the COLORFAST® Industrial Colour System, thus offering an extensive, readily available colour range.

RESISTANCE G	UIDE					
WEATHERABILITY	Good gloss and	chalk resistance on exterior exposure	SOLVENTS Resists splash and spillage of aliphatic and aromatic			hatic and aromatic
HEAT RESISTANCE	Up to 90°C dry h	neat		hydrocarbons		
SALTS	Excellent resista	nce to neutral and acid salt solutions	WATER	Resists rain and condensation. Not recommended for permanently damp or immersed exposure.		
ACIDS	Suitable for splan	sh and spillage exposure to weak solutions	ALKALIS	l. ,	•	splash or spillage may
	oi acius			occur		
			ABRASION	Very good when f	ully cured	
TYPICAL PROPI	ERTIES ANI	D APPLICATION DATA				
CLASSIFICATION	Silicone alkyd er	namel	APPLICATION CO	ONDITIONS		
FINISH	High Gloss			Min	Max	
COLOUR		d a full range of tinted colours and factory	Air Temp.	10°C	40°C	
	packaged colour	rs	Surface Temp.	10°C	40°C	
COMPONENTS			Relative Humidity		85%	
VOLUME SOLIDS	` •	•	Concrete Moisture			
VOC LEVEL	EL <470 g/L (Light Base) >23°C					
FLASH POINT			COATING THICKNESS (MICRONS)			
POT LIFE	Not applicable			Min	Max	Recommended
THINNER - BRUSH	965-H0010	Metalshield® Brush Thinner	Wet Film Per Coat (µm)	90	135	115
THINNER - SPRAY	965-H0009	Metalshield® Spray Thinner	Dry Film Per Coat (μm)	40	60	50
PRODUCT CODE	384-63001 384-63002	Light Base Deep Base		1		
	384-63002	Clear Base	SUITABLE		ninium, fibreglas	s MDF, galvanised steel or
	384-00070	Black	PRIMERS	Most Dulux® sing	le pack and two	pack primers
	384-63143 384-84918	White Classic Cream™	TOPCOATS	Not applicable		
	384-60337	Cottage Green®	APPLICATION	Air Spray, Airless	Spray, Brush, R	oller
	384-84921	Deep Ocean®	METHODS			
	384-39141 384-89968	Golden Yellow Monument®				
	384-88544	Paperbark®				
	384-88680	Signal Red				
	384-13760	Tractor Blue				
	384-60342	Woodland Grey®				

DRYING CHARACTERISTICS AT 50 μm DRY FILM THICKNESS								
	OVERCOAT				RCOAT			
Temperature	Humidity	Touch	Handle	Full Cure	Min	Max		

6 Hours

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

2 Hours

If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

Overcoating can occur up to 1 hour after initial application or after 24 hours. Failing to observe these limits may result in "frying". If in doubt test a small inconspicuous area first. Allow longer times under cold conditions.

### **SPREADING RATE**

## 8.8 square metres per litre equals 50 µm dry film thickness

assuming no losses

25°C

50%

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

7 Days



# Metalshield® Premium

## 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 - Moderate (AS2312 Cat C1-2) System ALK3	Power tool clean AS1627.2 St 3 Abrasive blast AS1627.4 Sa 2	1st Coat 2nd Coat	Luxaprime® ZP Metalshield® Premium	75 μm 50 μm
STEEL - NEW	Mild (AS2312 Cat C1)	Power tool clean AS1627.2 Abrasive blast AS1627.4	1st Coat	Metalshield® High Build ZP Primer	50 μm
			2nd Coat	Metalshield® Premium	50 μm
HARDWOOD & MDF	Interior	Sand and dust down before and after first coat	1st Coat	Dulux® Acrylic Primer Undercoat	35 µm
			2nd Coat	Metalshield® Premium	50 μm
ALUMINIUM FIBREGLASS	Exterior/Interior	Clean, degrease and abrade surface	1st Coat 2nd Coat	Luxepoxy® 4 White Primer Metalshield® Premium	50 μm 50 μm

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

# **PREPARATION**

SURFACE Specifiers should follow the surface preparation guidelines from the data sheet for the primer or first coat selected. The surface must be clean, sound and free from moisture, grease, oil, dirt, rust, loose paint, and other contaminants. Degrease surface with Gamlen CA 1 detergent (according to the manufacturer's written instructions and all safety warnings) and then abrade to provide a suitable key for the coating system.

#### **APPLICATION**

Mix thoroughly using a power mixer until the contents are uniform. Ensure paint has been tinted to the correct colour before use. DULUX® ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF INCORRECT COLOUR. Box all containers to ensure colour consistency. Remix thoroughly before application.

#### APPLICATION **EQUIPMENT**

AIRLESS SPRAY: Standard airless spray equipment such as a Graco Xtreme 30:1 or Graco Merkur 30:1 with a fluid tip of 11-13 thou (0.28-0.33mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Thinning is not normally required but up to 50 ml/litre of Metalshield® Spray Thinner may be added to aid application.

Tip Orifice	Atomising Pressure	Material Hose ID	Pump Manifold Filter	
11-13 thou (0.28-0.33mm)	16,500-20,700kPa (2,400-3,000p.s.i.)			

AIR SPRAY: Thin up to 100 ml/litre with Metalshield® Spray Thinner (965-H0009) to aid atomisation. Apply in multiple wet coats overlapping each

Gun	Fluid Tip	Air Cap	Air Hose ID	Material Hose ID	Atomising Pressure	Material Pressure
Graco AirPro	1.4mm	239542			340-410 kPa (50-60 p.s.i.)	70-100 kPa (10-15 p.s.i.)

Roller: Apply even coats of the material to the prepared surface. Additional coats may be required to attain the specified thickness. Thin if required with up to 50 ml/litre with Metalshield® Brush Thinner (965-H0010) to aid application.

Brush: Apply even coats of the material to the prepared surface. Additional coats may be required to attain the specified thickness. Thin if required with up to 50 ml/litre with Metalshield® Brush Thinner (965-H0010) 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 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Overcoating can occur up to 1 hour after the initial application or after 24 hours. Do not overcoat before the minimum overcoat interval - to do so may result in "frying" or wrinkling. If in doubt test a small inconspicuous area first. Allow longer times under cold conditions. Do not apply over galvanised iron or zinc rich coatings.

Clean all equipment with Metalshield® Brush Thinner or Metalshield® Spray Thinner 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 (132377) or www.duluxprotectivecoatings.com.au

	Product Line Shade, Product Name, and SDS Number	SDS Link
П	384-LINE, DULUX METALSHIELD PREMIUM ENAMEL TOPCOAT, DLXGHSEN001456	View SDS Link

### 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, drinking or using the toilet.

# 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<sub>z</sub> or dry chemical powder. On burning will emit toxic fumes.

Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding. WELDING



# **Metalshield® Premium**

COMPANY INFORMATION		PACKAGING, TRANSPORT AND STORAGE			
Dulux Protective Coatings is a division of	PACKAGING Available in 1 and 4 litre cans				
DuluxGroup (Australia) Pty Ltd	DuluxGroup (New Zealand) Pty Ltd	TRANSPORTATION WEIGHT 1.20 kg/litre			
1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427	150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118	DANGEROUS GOODS	Part A: Part B:	CLASS 3 N/A	UN 1263 N/A

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