

METALSHIELD® QD TOPCOAT

Quick Dry Gloss Alkyd Enamel

LI 006

- FEATURES**
- HIGH GLOSS FINISH
 - RAPID DRY & RECOAT
 - SINGLE PACK
 - EXTENSIVE COLOUR RANGE USING COLORFAST® TINT SYSTEM
 - LIMITED RANGE OF TOUCHUP SPRAYPAKS AVAILABLE

USES METALSHIELD® QD TOPCOAT is ideal as a coating for steel in mild and commercial environments. The preferred coating where a fast dry, easy repair and recoat finish is required. METALSHIELD® QD TOPCOAT is particularly suitable for use with METALSHIELD® QD ENAMEL PRIMER for time-critical jobs.

METALSHIELD® QD TOPCOAT is used to paint machinery and equipment such as cranes, trailers, pumps, compressors and as a general purpose fast dry enamel.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Will chalk on exterior exposure. Chalking will not detract from the protective properties of the coating.	SOLVENTS	Resists mineral turpentine. Poor resistance to strong solvents
HEAT RESISTANCE	Up to 80°C dry heat	WATER	Resists rain and condensation. Not recommended for permanently damp or immersed exposure
SALTS	Poor resistance to most 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	Quick dry alkyd enamel	APPLICATION CONDITIONS			
FINISH	High Gloss		Min	Max	
COLOUR	An extensive range of tinted and factory packed colours. Selected touchup spraypaks also available.	Air Temp.	10°C	40°C	
		Substrate Temp.	10°C	40°C	
		Relative Humidity		85%	
COMPONENTS	One	COATING THICKNESS (MICRONS)			
VOLUME SOLIDS	38%		Min	Max	Recommended
VOC LEVEL	<510 g/L (White)	Wet film per coat (µm)	80	130	105
FLASH POINT	-1°C	Dry film per coat (µm)	30	50	40
POT LIFE	Not applicable	SUITABLE SUBSTRATES	Suitably primed mild steel, aluminium, galvanised steel, concrete, fibreglass or MDF		
MIXING RATIO V/V	Single pack	PRIMERS	Most Dulux® alkyd and two pack primers		
THINNER – BRUSH	965-H0010 Metalshield® Brush Thinner	TOPCOATS	Not applicable		
THINNER – SPRAY	965-H0009 Metalshield® Spray Thinner	APPLICATION METHODS	Conventional, airless spray or air assisted spray		
PRODUCT CODE	37163001 White/Light Base 37163002 Deep Base 37163003 Clear Base 37100070 Black 37139141 Golden Yellow 37150570 Metallic Silver 37100805 MIO Natural Grey 37150822 John Deere Green 37142412 New Caterpillar Yellow 37188680 Signal Red 37113760 Tractor Blue				

DRYING CHARACTERISTICS AT 40 µm DRY FILM THICKNESS*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min ¹	Max
25° C	50%	20 Minutes	2 Hours	7 Days	24 Hours	Extended

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

¹Overcoating can occur up to 4 hours 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 9.5 square metres per litre equals 40 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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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	Very low - Moderate corrosivity (AS2312 Cat C1-3)	Power tool clean AS1627.2 Abrasive blast AS1627.4	1 st Coat Metalshield® High Build ZP Primer 2 nd Coat Metalshield® QD Topcoat	50 µm 40 µm
STEEL – NEW	Mild - Moderate (AS2312 Cat C1-3)	Power tool clean AS1627.2 Abrasive blast AS1627.4	1 st Coat Metalshield® Quick Dry Primer 2 nd Coat Metalshield® QD Topcoat	35 µm 40 µm
GALVANISED*, ALUMINIUM, FIBREGLASS	Exterior Mild/ Interior	Clean, degrease and abrade surface	1 st Coat Metalshield® Etch Primer 2 nd Coat Metalshield® QD Topcoat 3 rd Coat Metalshield® QD Topcoat	10 µm 40 µm 40 µm

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

* This system is only recommended over galvanised steel in very low corrosivity environments

SURFACE PREPARATION	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 and abraded to provide a suitable key for the coating system. If application of the second coat has exceeded the recoat window of the first coat (refer to data sheet) then the entire surface MUST be abraded.
APPLICATION	Mix each can thoroughly using a power mixer until the contents are uniform. Ensure each can 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.
BRUSH/ROLLER	Suitable for small areas only. Apply even coats of the material to the prepared surface. When brushing and rolling additional coats may be required to attain the specified thickness. Thin if necessary with up to 100 ml/litre of Metalshield® Brush Thinner (965-H0010) to aid application.
CONVENTIONAL SPRAY	Thin up to 150 ml/litre with Metalshield® Spray Thinner (965-H0009) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%. Typical Set-up Graco AirPro: 1.4mm (239542) Pressure at Triton 308: 70-100 kPa (10-15 p.s.i.) Pressure at Gun: 380-410 kPa (55-60 p.s.i.)
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 normally required but up to 50 ml/litre of Metalshield® Spray Thinner (965-H0009) may be added to ease 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® Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express 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 4 hours after the initial application or after 24 hours. Failing to observe these limits may result in "frying" or wrinkling. If in doubt test a small inconspicuous area first. Allow longer times under cold conditions.
CLEAN UP	Clean all equipment with Metalshield® Spray Thinner (965-H0009) or Metalshield® Brush Thinner (965-H0010) 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, 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 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

Dulux Protective Coatings a division of

DuluxGroup (Australia) Pty Ltd
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DuluxGroup (New Zealand) Pty Ltd
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 1, 4 and 15 litre cans Available in 300g Aerosols
TRANSPORTATION WEIGHT	1.2 kg/litre
DAANGEROUS GOODS	Cans: Class 3 UN 1263 Aerosols: Class 2 UN 1950

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