

Metalshield® QD Primer

Quick Dry Zinc Phosphate Primer

LI 003

- FEATURES**
- RAPID DRY PRIMER
 - EXCELLENT SHOP PRIMER
 - SINGLE PACK PRODUCT
 - CONTAINS ZINC PHOSPHATE

- USES**
- METALSHIELD® QD PRIMER is an anti-corrosive shop or field primer used for the protection of steel in mild industrial and commercial environments. The rapid dry formulation of METALSHIELD® QD PRIMER is ideal where fast turn-around is required.
 - METALSHIELD® QD PRIMER is particularly suitable for use with METALSHIELD® QD ENAMEL TOPCOAT for time-critical jobs, or with METALSHIELD® PREMIUM where longer gloss retention is desired.

CERTIFICATIONS AS3750.19 Type 1

RESISTANCE GUIDE

WEATHERABILITY	Will chalk on exterior exposure. Chalking will not detract from the protective properties of the coating. Use a weatherable topcoat if required for appearance.	SOLVENTS	Resists alcohols, mineral turpentine. Poor resistance to esters, ketones, ethers, chlorinated solvents and similar strong solvents.
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Resists rain and condensation. Not recommended for permanently damp or immersed exposure.
SALTS	Unaffected by splash and spillage of neutral salt solutions	ALKALIS	Not recommended where fumes, splash or spillage may occur
ACIDS	Not recommended where fumes, splash or spillage may occur	ABRASION	Moderate when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Zinc phosphate shop primer		APPLICATION CONDITIONS			
FINISH	Flat			Min	Max	
COLOUR	Grey, Red Oxide, Black, Green (Made To Order) and Deep Cream (Made To Order)		Air Temp.	5°C	40°C	
COMPONENTS	One		Surface Temp.	5°C	40°C	
VOLUME SOLIDS	37% (Red Oxide)		Relative Humidity		85%	
VOC LEVEL	<520 g/L (Red Oxide)		Concrete Moisture			
FLASH POINT	4°C		COATING THICKNESS (MICRONS)			
POT LIFE	Not applicable			Min	Max	Recommended
THINNER – BRUSH	965-H0010	Metalshield® Brush Thinner	Wet Film Per Coat (µm)	85	110	95
THINNER – SPRAY	965-H0009	Metalshield® Spray Thinner	Dry Film Per Coat (µm)	30	40	35
PRODUCT CODE	366-87293	Grey	SUITABLE SUBSTRATES	Abrasive blast cleaned or power tool cleaned steel		
	366-87296	Red Oxide	PRIMERS	Not applicable		
	366-87295	Black	TOPCOATS	Dulux® Metalshield® topcoats		
	366-88469	Green (MTO)	APPLICATION METHODS	Air Spray, Airless Spray		
	366-88608	Deep Cream (MTO)				

DRYING CHARACTERISTICS AT 35 µm DRY FILM THICKNESS

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max
25°C	50%	10 Minutes	45 Minutes	7 Days	2 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

10.6 square metres per litre equals 35 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	Low-medium corrosivity (AS2312.1 Cat C2-3) System ALK6	Abrasive blast AS1627.4 Class 2	1st Coat Metalshield® QD Primer 2nd Coat Ferrodor® 810 3rd Coat Ferrodor® 810	35 µm 50 µm 50 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C2)	Abrasive blast AS1627.4 Class 2	1st Coat Metalshield® QD Primer 2nd Coat Metalshield® Premium	35 µm 50 µm
STEEL – NEW	Interior (AS2312.1 Cat C1)	Power tool clean AS1627.2 St 3	1st Coat Metalshield® QD Primer 2nd Coat Metalshield® QD Topcoat	35 µm 40 µm
STEEL – NEW	Interior (AS2312.1 Cat C1)	Power tool clean AS1627.2 St 3	1st Coat Metalshield® QD Primer	35 µm

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

SURFACE PREPARATION	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 (a free-rinsing, alkaline detergent) according to the manufacturer's data sheet. Abrasive blast clean to a minimum of AS1627.4 Class 2.5 with a blast profile of 40 – 70 microns. Remove all dust brushing or vacuum. Steel where abrasive blast cleaning is not viable: Rust, millscale, oxide deposits and old paint must be removed by power tool cleaning according to AS1627.2 Class 2. Coating performance is proportional to the degree of surface preparation.						
APPLICATION	Mix each can thoroughly using a power mixer until the contents are uniform. Remix thoroughly before application.						
APPLICATION EQUIPMENT	Airless Spray: Standard airless spray equipment such as a Graco Merkur 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.						
	Tip Orifice		Atomising Pressure		Material Hose ID		Pump Manifold Filter
	13-15 thou (0.33-0.38mm)						
	Conventional Spray: Thin up to 60 ml/litre with Metalshield® Spray Thinner (965-H0009) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.						
	Gun	Fluid Tip	Air Cap	Air Hose ID	Material Hose ID	Atomising Pressure	Material Pressure
Graco AirPro	1.8mm	239543			380-410 kPa (55-60 p.s.i.)	70-100 kPa (10-15 p.s.i.)	
	Roller: Suitable for small areas only. Apply even coats of the material to the prepared surface. When rolling additional coats may be required to attain the specified thickness. Thin if required with up to 100 ml/litre with Metalshield® Brush Thinner (965-H0010) to aid application.						
	Brush: Suitable for small areas only. Apply even coats of the material to the prepared surface. When brushing additional coats may be required to attain the specified thickness. Thin if required with up to 100 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 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. Do not apply over scale bearing steel for exterior use. Abrasive blast cleaned surfaces must be primed within 4 hours. NOTE: This product is not suitable to be topcoated by two pack heavy-duty coatings or directly applied over galvanised iron or zinc rich coatings.						
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 manufacturer's written instructions and all safety warnings. 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.						
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		
	366-LINE, METALSHIELD QUICK DRY PRIMER, DLXGHSN000682				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. 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						

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COMPANY INFORMATION		PACKAGING, TRANSPORT AND STORAGE			
Dulux Protective Coatings is a division of		PACKAGING Available in 15 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	1.38 kg/litre (Red Oxide)		
		DANGEROUS GOODS	Part A:	Class 3	UN 1263
			Part B:	N/A	N/A

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