

# 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

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

### TYPICAL PROPERTIES AND APPLICATION DATA

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

### 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.

<b>SPREADING RATE</b> assuming no losses	<b>10.6 square metres per litre equals 35 µm dry film thickness</b> 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.

<b>SURFACE PREPARATION</b>	<p><b>Steel:</b> 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.</p> <p><b>Steel where abrasive blast cleaning is not viable:</b> 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.</p>																						
<b>APPLICATION</b>	Mix each can thoroughly using a power mixer until the contents are uniform. Remix thoroughly before application.																						
<b>APPLICATION EQUIPMENT</b>	<p><b>Airless Spray:</b> 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.</p> <table border="1"> <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><b>Conventional Spray:</b> Thin up to 60 ml/litre with Metalshield® Spray Thinner (965-H0009) to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.</p> <table border="1"> <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>1.8mm</td> <td>239543</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><b>Roller:</b> 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.</p> <p><b>Brush:</b> 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.</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	1.8mm	239543			380-410 kPa (55-60 p.s.i.)	70-100 kPa (10-15 p.s.i.)
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<b>PRECAUTIONS</b>	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.																						
<b>CLEAN UP</b>	Clean all equipment with Metalshield® Spray Thinner (965-H0009) or Metalshield® Brush Thinner (965-H0010) immediately after use.																						
<b>OVERCOATING</b>	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.																						
<b>SAFETY PRECAUTIONS</b>	<p>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (132377) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></p> <table border="1"> <tbody> <tr> <td>Product Line Shade, Product Name, and SDS Number</td> <td>SDS Link</td> </tr> <tr> <td>366-LINE, METALSHIELD QUICK DRY PRIMER, DLXGHCEN000682</td> <td><a href="#">View SDS Link</a></td> </tr> </tbody> </table>	Product Line Shade, Product Name, and SDS Number	SDS Link	366-LINE, METALSHIELD QUICK DRY PRIMER, DLXGHCEN000682	<a href="#">View SDS Link</a>																		
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<b>STORAGE</b>	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.																						
<b>HANDLING</b>	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.																						
<b>USING</b>	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.																						
<b>FLAMMABILITY</b>	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>2</sub> or dry chemical powder. On burning will emit toxic fumes.																						
<b>WELDING</b>	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding																						

# Metalshield® QD Primer

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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