

METALSHIELD® QD PRIMER

Rapid Drying 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.

SPECIFICATIONS 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	45°C	
		Substrate Temp.	5°C	45°C	
		Relative Humidity		85%	
COMPONENTS	One	COATING THICKNESS (MICRONS)			
VOLUME SOLIDS	32% (Red Oxide)		Min	Max	Recommended
VOC LEVEL	<530 g/L (Grey)	Wet film per coat (µm)	95	125	110
FLASH POINT	4°C	Dry film per coat (µm)	30	40	35
POT LIFE	Not applicable	SUITABLE SUBSTRATES	Abrasive blast cleaned or power tool cleaned steel		
MIXING RATIO V/V	Single pack	PRIMERS	Not applicable		
THINNER – BRUSH	965-H0010 Metalshield® Brush Thinner	TOPCOATS	Dulux® Metalshield® topcoats		
THINNER – SPRAY	965-H0009 Metalshield® Spray Thinner	APPLICATION METHODS	Conventional, airless spray or air assisted spray		
PRODUCT CODE	366-87293 Grey 366-87296 Red Oxide 366-87295 Black 366-88469 Green (MTO) 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

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

SPREADING RATE 9.1 square metres per litre equals 35 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	Low-medium corrosivity (AS2312.1 Cat C2-3) System ALK6	Abrasive blast AS1627.4 Class 2	1 st Coat Metalshield® QD Primer 2 nd Coat Ferrodor® 810 3 rd Coat Ferrodor® 810	35 µm 50 µm 50 µm
STEEL – NEW	Low corrosivity (AS2312.1 Cat C2)	Abrasive blast AS1627.4 Class 2	1 st Coat Metalshield® QD Primer 2 nd Coat Metalshield® Premium	35 µm 50 µm
STEEL – NEW	Interior (AS2312.1 Cat C1)	Power tool clean AS1627.2 St 3	1 st Coat Metalshield® QD Primer 2 nd Coat Metalshield® QD Topcoat	35 µm 40 µm
STEEL – NEW	Interior (AS2312.1 Cat C1)	Power tool clean AS1627.2 St 3	1 st 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, mill scale, 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 BRUSH/ROLLER	Mix each can thoroughly using a power mixer until the contents are uniform. Remix thoroughly before application. 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 required with up to 100 ml/litre with Metalshield® Brush Thinner (965-H0010) to aid application.
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%. Typical Set-up Graco AirPro: 1.8mm (239543) 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 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.
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 internal 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 No. 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 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 bonded 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.

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 15 litre cans
TRANSPORTATION WEIGHT 1.1 kg/litre
DANGEROUS GOODS Class 3 UN 1263

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