

METALSHIELD[®] QUICK DRY Primer

Rapid Drying Zinc Phosphate Primer

LI 003

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

USES METALSHIELD[®] QUICK DRY Primer is an anti-corrosive shop or field primer used for the protection of steel in mild industrial and commercial environments and is ideal where fast turn around time is needed.

SPECIFICATIONS AS3750.19 Type 1

RESISTANCE GUIDE

HEAT RESISTANCE Up to 120°C dry heat.

WEATHERABILITY On exterior exposure some chalking may also occur. This will not detract from the protective properties of the coating. Use a weatherable topcoat if required for appearance.

SOLVENTS Resists alcohol, mineral turpentine and similar solvents. Esters, ketones, ethers, chlorinated solvents or similar strong solvents are liable to attack the coating.

ACIDS Not recommended where fumes, splash or spillage may occur.

ALKALIS Not recommended where fumes, splash or spillage may occur.

SALTS Unaffected by splash and spillage of neutral salt solutions.

WATER Resists rain and condensation. Not recommended for permanently damp or immersed exposure.

ABRASION Moderate when fully cured.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION Zinc phosphate shop primer
FINISH Flat
COLOUR Grey, Red Oxide, Black and selected MTO factory made colours.

COMPONENTS One
SOLIDS BY VOLUME 32% (Red Oxide)
VOC LEVEL <530 g/L (Grey)
FLASH POINT 4°C
POT LIFE Not applicable
MIXING RATIO (V/V) Single pack

THINNER **Brush** 965-H0010 Metalshield[®] Brush Thinner
Spray 965-H0009 Metalshield[®] Spray Thinner

PRODUCT CODE 366-87293 Grey
366-87296 Red Oxide
366-87295 Black
366-88469 Green (MTO)
366-88608 Deep Cream (MTO)

APPLICATION CONDITIONS

	Min	Max
Air Temperature	5°C	45°C
Substrate Surface Temperature	5°C	45°C
Relative Humidity		85%

	Min	Max	Recom.
Wet film per coat (microns)	95	125	110
Dry film per coat (microns)	30	40	35

SUITABLE SUBSTRATES Abrasive blast cleaned, hand cleaned or power tool cleaned steel.

TOPCOATS Alkyd based topcoats.

APPLICATION METHODS Conventional, airless spray or air assisted spray.

Drying characteristics at 35 microns dry film thickness

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

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

TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD

A spreading rate of 9.1 sq. metres per litre corresponds to 35 microns dry film thickness assuming no losses. Practical spreading rates will vary depending on such factors as method and conditions of application and surface roughness.

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TYPICAL SYSTEMS

(The typical systems are offered as a guide only and are not to be used as a specification. It is recommended that the specific needs of a project be discussed with a Dulux Protective Coatings Consultant.)

SURFACE	PREPARATION GUIDE	SYSTEM		DRY FILM THICKNESS
STEEL Mild environments	<u>Interior use</u> Hand or Power tool clean AS1627.2 St 3 Abrasive blast AS1627.4 Class 1	1st Coat	METALSHIELD® QUICK DRY Primer	50 Microns
		1st Coat	METALSHIELD® QUICK DRY Primer	35 Microns
	<u>Exterior use</u> Abrasive blast AS1627.4 Class 2	2nd Coat	METALSHIELD® QD Enamel Topcoat	40 Microns
		1st Coat	METALSHIELD® QUICK DRY Primer	35 Microns
		2nd Coat	FERRODOR® 810	50 Microns

SURFACE PREPARATION Round off all rough welds, sharp edges and remove weld spatter. Remove grease, oil and other contaminants in accordance with AS1627.1. Rust, millscale, oxide deposits and old paint films on metal surfaces should be removed by hand or power tool (AS1627.2 St 3) cleaning as a minimum. Coating performance is proportional to the degree of surface preparation and abrasive blast cleaning to a minimum AS1627.4 Class 2 is preferred for external environments. Remove all dust by brushing or vacuum cleaning.

APPLICATION Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Remix thoroughly before using.

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 required with up to 100 ml/litre with METALSHIELD® Brush Thinner (965-H0010) to ease 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 Delta Gun: 1.8mm (239543)
Pressure at Pot: 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 33:1 Bulldog 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 express 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. 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 Aged coating should be tested for lifting by a method appropriate for the coating thickness, for example 'X' cut or cross-hatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. High-pressure water wash at 8.3 to 10.3 MPa (1,200 – 1,500 p.s.i.) to remove loosely adhering chalk and dust. Abrasion may be required depending on surface condition. Apply a further coat of METALSHIELD® QUICK DRY Primer, METALSHIELD® PREMIUM UV Resistant Enamel Topcoat, METALSHIELD® QD ENAMEL Topcoat or METALSHIELD® Decorama® Tintable Enamel Topcoat.

SAFETY PRECAUTIONS **Read Data Sheet, Safety Data Sheet and any precautionary labels on containers.**

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 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.

USING Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spray painting, users should comply with the provisions of the respective State Spray Painting Regulations.

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, CO₂ 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.

SAFETY DATA SHEET is available from Dulux Customer Service (Phone Australia 132 377 or New Zealand 0800 800 424)

www.duluxprotectivecoatings.com.au

Dulux Protective Coatings a division of
DuluxGroup (Australia) Pty Ltd
1956 Dandenong Road, Clayton 3168
A.B.N. 67 000 049 427
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DuluxGroup (New Zealand) Pty Ltd
150 Hutt Park Road, Lower Hutt, NZ
A.B.N. 55 133 404 118

PACKAGING Available in 15 litre pails
TRANSPORTATION WEIGHT 1.1 kg/litre
DANGEROUS GOODS Class 3 UN 1263

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