

METALSHIELD® HIGH BUILD ZP PRIMER

Fast Dry High Build Zinc Phosphate Primer

LI 004

- **FEATURES** FAST DRY PRIMER
 - CONTAINS ZINC PHOSPHATE
 - HIGH BUILD SHOP PRIMER
 - SINGLE PACK PRODUCT
 - TOUCHUP SPRAYPAKS AVAILABLE

USES METALSHIELD® HIGH BUILD ZP 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 required. The high build characteristics of METALSHIELD® HIGH BUILD ZP PRIMER offers greater protection than standard shop primers.

SPECIFICATIONS AS/NZS 3750.19 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 alcohol, mineral turpentine and similar solvents. Esters, ketones, ethers, chlorinated solvents or similar strong solvents are liable to attack the coating				
HEAT RESISTANCE	Up to 95°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				

	spillage may	occui					
TYPICAL PROP	PERTIES A	AND APPLICATION DA	TA				
CLASSIFICATION	High build zir	nc phosphate primer	APPLICATION CONDITIONS				
FINISH	Low Sheen			Min	Max		
COLOUR	Grey, Red Oxide, Blue and Dark Grey (Made To Order). Touchup spraypaks also available.		Air Temp.	10°C	40°C		
			Substrate Temp.	10°C	40°C		
			Relative Humidity		85%		
COMPONENTS	One						
VOLUME SOLIDS	41% (Red Ox	kide)	COATING THICKNESS (MICRONS)				
VOC LEVEL	<510 g/L (Red Oxide)			Min	Max	Recommended	
FLASH POINT	4°C		Wet film per coat (µm)	100	185	120	
POT LIFE	Not applicable		Dry film per coat (µm)	40	75	50	
MIXING RATIO V/V	Single pack						
THINNER - BRUSH	965-H0010	Metalshield® Brush Thinner	SUITABLE			d, hand cleaned	
THINNER - SPRAY	965-H0009	Metalshield® Spray Thinner	SUBSTRATES	or power tool cleaned steel			
PRODUCT CODE			PRIMERS	Not applicable			
	366-87299 366-87300	Blue Grey					
	366-89824	Dark Grey (MTO	TOPCOATS	Dulux® single pack topcoats		pcoats	
		• •					
			APPLICATION	-		s spray or air	
			METHODS	assisted sp	ray		

DRYING CHARACTERISTICS AT 50 µm DRY FILM THICKNESS*

					OVERCOAT		
Temperature	Humidity	Touch	Handle	Full Cure	Min ¹	Max ¹	
25° C	50%	15 Minutes	2 Hours	7 Days	12 Hours	Extended	

^{*}These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying. Overcoating can occur up to 2 hours after initial application or after 12 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 ASSUMING NO LOSSES

8.2 square metres per litre equals 50 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-med corrosivity (AS2312 Cat C1-3) System ACL1	Power tool clean AS1627.2 St 3	2 nd Coat	Metalshield [®] High Build ZP Primer Weathershield [®] Gloss Weathershield [®] Gloss	50 μm 40 μm 40 μm
STEEL - NEW	Low-med corrosivity (AS2312 Cat C1-3) System ALK6	Power tool clean AS1627.2 St 3 Abrasive blast AS1627.4 Class 2	2 nd Coat	Metalshield [®] High Build ZP Primer Ferrodor [®] 810 Ferrodor [®] 810	50 μm 50 μm 50 μm
STEEL - NEW	Low-med corrosivity (AS2312 Cat C1-3) System ALK2	Power tool clean AS1627.2 St 3 Abrasive blast AS1627.4 Class 2	2 nd Coat	Metalshield [®] High Build ZP Primer Metalshield [®] Premium Enamel Metalshield [®] Premium Enamel	50 μm 50 μm 50 μm
NOTE: If application i	s by brush or roller, additior	nal coats will be necessary to achieve the	minimum D	PFT and full opacity	

PREPARATION

SURFACE 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 according to the data sheet and SDS. 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 films on metal surfaces 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 thoroughly using a power mixer until the contents are uniform. 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 required with Metalshield® Brush Thinner (965-H0010).

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) 70-100 kPa (10-15 p.s.i.) Pressure at Triton 308: Pressure at Gun:

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 aid application. Metalshield® Brush Thinner (965-H0010) may

380-410 kPa (55-60 p.s.i.)

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 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 dew point. Overcoating can occur up to 2 hours after the initial application or after 12 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. Do not apply over millscale. Abrasive blast cleaned surfaces must be primed within 4 hours. Do not topcoat with two pack coatings DO NOT APPLY ON GALVANISED IRON.

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,

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, 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.

Dulux Protective Coatings a division of

COMPANY INFORMATION

DuluxGroup (Australia) Pty Ltd DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118

Available in 1, 4 and 15 litre containers PACKAGING Available in 300g Aerosols TRANSPORTATION WEIGHT 1.25 kg/litre (Red Oxide)

1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427

Cans: Class 3 UN 1263 DANGEROUS GOODS Aerosols: Class 2 UN 1950

PACKAGING, TRANSPORT AND STORAGE

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