

# METALSHIELD® COLD GALV PRIMER

## One Pack Zinc Rich Primer

**LI 002**

- FEATURES**
- ZINC RICH
  - SINGLE PACK
  - FAST DRYING
  - TOUCHUP SPRAYPAKS AVAILABLE

**USES** METALSHIELD® COLD GALV Primer incorporates a high level of finely divided zinc in the dry film providing sacrificial protection to steel substrates with the convenience of single pack application.  
METALSHIELD® COLD GALV Primer is excellent for the repair of damaged galvanised steel and wrought iron balustrades and railings.

**SPECIFICATIONS** AS3750.9 Type 1

### RESISTANCE GUIDE

<b>WEATHERABILITY</b>	Will chalk on exterior exposure. Use a weatherable (non-alkyd) topcoat on externally exposed steelwork.	<b>SOLVENTS</b>	Good resistance to splash and spillage of aliphatic hydrocarbon solvents
<b>HEAT RESISTANCE</b>	Up to 65°C dry heat	<b>WATER</b>	Resists rain and condensation. Not recommended for permanently damp or immersed exposure
<b>SALTS</b>	Excellent resistance to neutral salts	<b>ALKALIS</b>	Not recommended for use in highly alkaline conditions
<b>ACIDS</b>	Not recommended for acid conditions	<b>ABRASION</b>	Good when fully cured

### TYPICAL PROPERTIES AND APPLICATION DATA

<b>CLASSIFICATION</b>	Chlorinated Rubber Zinc Rich Primer	<b>APPLICATION CONDITIONS</b>			
<b>FINISH</b>	Flat		Min	Max	
<b>COLOUR</b>	Grey Touchup Spraypaks available in Grey and Silver	<b>Air Temp.</b>	5°C	40°C	
		<b>Substrate Temp.</b>	5°C	40°C	
		<b>Relative Humidity</b>		85%	
<b>COMPONENTS</b>	One	<b>COATING THICKNESS (MICRONS)</b>			
<b>VOLUME SOLIDS</b>	42%		Min	Max	Recommended
<b>VOC LEVEL</b>	< 510g/L	<b>Wet film per coat (µm)</b>	120	215	180
<b>FLASH POINT</b>	24°C	<b>Dry film per coat (µm)</b>	50	90	75
<b>POT LIFE</b>	Not applicable	<b>SUITABLE SUBSTRATES</b>	Prepared steel and galvanised steel		
<b>MIXING RATIO V/V</b>	Single pack	<b>PRIMERS</b>	Not applicable		
<b>THINNER</b>	965-H0012 Metalshield® Cold Galv Thinner	<b>TOPCOATS</b>	Dulux® chlorinated rubber or acrylic topcoats. (Alkyd topcoats not suitable – see Precautions)		
<b>PRODUCT CODE</b>	812-87306 Grey	<b>APPLICATION METHODS</b>	Conventional, airless spray or air assisted spray. Brush and roller suitable for small areas only.		

### DRYING CHARACTERISTICS AT 75 µm DRY FILM THICKNESS\*

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max
25° C	50%	30 Minutes	16 Hours	7 Days	3 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 5.6 square metres per litre equals 75 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	Mild - Moderate (AS2312 Cat C2-4)	Abrasive blast clean AS1627.4 Class 2.5	1 <sup>st</sup> Coat Metalshield® Cold Galv Primer 2 <sup>nd</sup> Coat Weathershield® Gloss 3 <sup>rd</sup> Coat Weathershield® Gloss	75 µm 40 µm 40 µm
GALVANISED STEEL DEFECTS	Exterior/Interior	Clean, degrease and abrade surface	1 <sup>st</sup> Coat Metalshield® Cold Galv Primer	75 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>	<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 written instructions and all safety warnings. 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. <b>Steel where abrasive blast cleaning is not viable:</b> 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. <b>Repair of galvanised steel:</b> Round off all rough welds, sharp edges and zinc dags and remove weld spatter. Remove grease, oil and other contaminants in accordance with AS1627.1. Remove zinc oxide deposits, rust and old paint films by power tool cleaning (AS1627.2. St 3) as a minimum. Coating performance is proportional to the degree of surface preparation. Remove all dust.
<b>APPLICATION</b>	Mix thoroughly using a power mixer until the contents are uniform. Remix thoroughly before and during application to prevent settlement.
<b>BRUSH/ROLLER</b>	For small areas only. Apply even coats to the prepared surface. Additional coats may be required to attain the specified thickness. Thin with up to 100 ml/litre with Metalshield® Cold Galv Thinner (965-H0012) if required.
<b>CONVENTIONAL SPRAY</b>	Thin up to 200 ml/litre with Metalshield® Cold Galv Thinner (965-H0012) to aid atomisation. Ensure paint is regularly agitated during application to prevent separation. 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.)
<b>AIRLESS SPRAY</b>	Standard airless spray equipment such as a Graco Xtreme 45:1 with a fluid tip of 19-21 thou (0.48-0.53mm) and an air supply capable of delivering 550-690 kPa (80-100 p.s.i.) at the pump. Ensure paint is regularly agitated during application to prevent separation. Thinning is not normally required but up to 60 ml/litre of Metalshield® Cold Galv Thinner (965-H0012) may be added to aid application.
<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® Consultant 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 apply on structures subject to sustained surface temperatures above 65°C or where spillage of solvent may occur. Do not weld or flame cut through chlorinated rubber coatings. Due to their thermoplastic nature, chlorinated rubber coatings are more suited to on site application. If transporting shortly after application care should be taken to ensure painted surfaces are not in contact. NOTE: <b>Saponifiable topcoats such as alkyds must NEVER be applied directly to Metalshield® Cold Galv Primer.</b>
<b>CLEAN UP</b>	Clean all equipment with METALSHIELD® Cold Galv Thinner (965-H0012) immediately after use.
<b>OVERCOATING</b>	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.
<b>SAFETY PRECAUTIONS</b>	<b>Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or <a href="http://www.duluxprotectivecoatings.com.au">www.duluxprotectivecoatings.com.au</a></b>
<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 should be worn where there is a risk of splashes entering the eyes. 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. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.
<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.

## COMPANY INFORMATION

Dulux Protective Coatings a division of

DuluxGroup (Australia) Pty Ltd  
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## PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 1 and 4 litre cans Available in 300g or 400g Aerosols
TRANSPORTATION WEIGHT	2.75 kg/litre
DANGEROUS GOODS	Cans: Class 3 UN 1263 Aerosols Class 2 UN 1950

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