AUPC00323 Dulux Protective Coatings Metalshield® Cold Galv Primer Primer

Description and Image

Dulux Metalshield ® Cold Galv Primer is a single pack, zinc rich, surface tolerant primer that incorporates a high level of finely divided zinc providing sacrificial corrosion protection to steel substrates.

Features and Benefits

- Zinc Rich
- Single pack
- Fast drying
- Surface tolerant
- Excellent galvanic protection for steel
- Convenience in use, reseal can for future use, minimal wastage
- Can be put into service or overcoated quickly
- Performs well on hand or power tool cleaned steel

Uses

Dulux 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 one pack application. It is excellent for the repair of damaged galvanised steel and wrought iron balustrades and railings.

Performance Guide

Weather **Good resistance to weathering. Overcoat with suitable topcoat for maximum UV resistance**	Salt **Unaffected by splash and spillage of neutral salt solutions only.**
Heat Resistance **Up to 65°C dry heat.**	Water **Resists rain and condensation. Not recommended for permanently damp or immersed exposure.**
Solvent **Resistant to splash and spillage of aliphatic hydrocarbon solvents only.**	Abrasion **Good when fully cured.**
Acid **Not suitable for acidic conditions below pH 6**	Alkali **Not recommended for use in highly alkaline conditions**

Typical Properties

Finish
Flat

Colour
Grey

Components
1

Shelf Life
1 year minimum at 25°C

Thinner
DULUX CR Reducer

Line/Shade
812-87306

Application Methods

Air Spray **Airless Spray** **Brush** **Roller**

Application Conditions

	Min	Max
Air Temperature	5	40
Substrate Surface Temperature	5	40
Relative Humidity		85

Solids by Volume
42

	Min	Max	Recommended
Wet Film Per Coat (microns)	119	215	180
Dry Film Per Coat (microns)	50	90	75
Recoat Time (min/hours)	3 hours	Indefinite	
Theoretical Spread Rate (m²/L)	8.4	4.7	5.6

Hardener Details

Typical Spreading Rate at recommended Dry Film Build

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. Rust, millscale, oxide deposits and old paint films on metal surfaces must be removed by abrasive blast cleaning to AS1627.4 Class 2.5. Remove all dust by brushing or vacuum cleaning.

Galvanised steel:
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 (AS1627.7 Class 2) or power tool (AS1627.2. Class 2) 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 more severe environments. Remove all dust by brushing or vacuum cleaning.

Overcoating:
Aged coating should be tested for lifting by a method suitable to the coating thickness, for example ?X? cut or crosshatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. Hand sand or high pressure water blast at 1,200 - 1,500 p.s.i. to remove loosely adhering chalk and dust prior to painting.

Application Guide

Application Method

Stir contents of each can thoroughly with a broad flat stirrer using a stirring, lifting action or use a power mixer. Remix thoroughly before using and continue mixing during application.
BRUSH/ROLLER: For small areas only. Apply even coats of the mixed material to the prepared surface. Thin if necessary with up to 100 ml/litre with DULUX CR Reducer to ease application. When brushing and rolling additional coats may be required to attain the specified thickness.
CONVENTIONAL SPRAY: Thin up to 200 ml/litre with DULUX CR Reducer to aid atomisation. Apply using an agitated pressure pot.
TYPICAL SET-UP:
De Vilbiss JGA 502 Gun: 704 Air Cap, E Fluid Tip, DEX Needle
Iwata W70 Gun: 021 Air Cap, 021 Fluid Needle, 021 Fluid Nozzle
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 Graco, Binks or others using a 40:1 or 45:1 pump ratio with a fluid tip of 19-21 thou (0.48-0.53mm) at a tip pressure of 13.8-20.6 MPa (2,000-3,000 p.s.i.). Keep pot agitated during spraying. Thinning is not normally required but up to 60 ml/litre of DULUX CR Reducer may be added to ease application.
Brush, roller, conventional or airless spray.

Precautions

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 topcoat with two pack products or products of a saponifiable nature such as alkyds.

Clean Up

Clean up thinner
Clean all equipment with DULUX CR Reducer.

Health and Safety
Storage **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 **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 **Using: Use with good ventilation and avoid inhalation of spray mists and fumes.**
Flammability **Flammability: This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE.**
Welding **Welding: Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.**
In case of emergency, please call 1800 220 770.

Transport and Storage	
Class **3**	UN Number **1263**

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The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS 4361 Parts 1 and 2 and Worksafe Australia guidelines.