

## AUPC00322 Dulux Protective Coatings Metalshield High Build ZP Primer

### Description and Image

DULUX METALSHIELD® High Build ZP Primer is an anti-corrosive shop or field primer used for the protection of general metal items, including structural steel, in light industrial and commercial environments. It is suitable for overcoating with alkyds where

### Features and Benefits

- Fast dry
- Contains Zinc Phosphate
- Single pack product
- High Build
- Quick turn around time.
- Provides excellent corrosion protection.
- Simple to apply and maintain.
- Increased protection compared to similar products

### Uses

DULUX 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. It offers greater protection than standard shop primers due to its high build characteristics.

### Performance Guide

Weather <b>Withstands exterior exposure when suitably topcoated.</b>	Salt <b>Unaffected by splash and spillage of neutral salt solutions.</b>
Heat Resistance <b>Up to 95°C dry heat.</b>	Water <b>Resists rain and condensation. Not recommended for permanently damp or immersed exposure.</b>
Solvent <b>Resists alcohol &amp; mineral turpentine. Film is liable to attack from other strong solvents.</b>	Abrasion <b>Moderate when fully cured.</b>
Acid <b>Not recommended where fumes, splash or spillage may occur.</b>	Alkali <b>Not recommended where fumes, splash or spillage may occur.</b>

### Typical Properties

Finish

**Low Sheen**

Colour

**Grey, Red Oxide, Blue & Black**

Components

**1**

Shelf Life

**1 year minimum @ 25°C**

Thinner

**DULUX Duthin 340 Spray thinner or DULUX Mineral Turpentine (brush)**

Line/Shade

**366 Line**

Application Methods



**Air Spray**



**Airless Spray**

Application Conditions

	Min	Max
Air Temperature	<input type="text" value="10"/>	<input type="text" value="45"/>
Substrate Surface Temperature	<input type="text" value="10"/>	<input type="text" value="45"/>
Relative Humidity	<input type="text"/>	<input type="text" value="85"/>

Solids by Volume

	Min	Max	Recommended
Wet Film Per Coat (microns)	<input type="text" value="100"/>	<input type="text" value="185"/>	<input type="text" value="120"/>
Dry Film Per Coat (microns)	<input type="text" value="40"/>	<input type="text" value="75"/>	<input type="text" value="50"/>
Recoat Time (min/hours)	<input type="text" value="12 hours"/>	<input type="text" value="Indefinite"/>	<input type="text"/>
Theoretical Spread Rate (m <sup>2</sup> /L)	<input type="text" value="10.3"/>	<input type="text" value="5.5"/>	<input type="text" value="8.2"/>

### 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 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 external 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 overcoating. Apply a further coat of DULUX METALSHIELD® High Build ZP Primer or DULUX METALSHIELD® QD Enamel.

## 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.**

**BRUSH/ROLLER:** Limited to small areas only. When brushing and rolling additional coats may be required to attain the specified thickness. Thin if required with DULUX Mineral Turpentine.

**CONVENTIONAL SPRAY:** Thin up to 60ml/litre with DULUX Duthin 340 Spray Thinner to aid atomisation. Apply in multiple wet coats overlapping each pass 50%.

#### TYPICAL SET-UP:

De Vilbiss JGA 502 Gun: 704 Air Cap, EX Fluid Tip, EX 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 and others using a 30:1 pump ratio with a fluid tip 13-15 thou (0.33-0.38mm) and an air supply of 550-690 kPa (80-100 psi) 100 mesh filter. Thinning is not normally required but up to 50 ml/litre of DULUX Duthin 340 Spray Thinner may be added to ease application. DULUX Mineral Turpentine may be used for thinning in hot weather. Conventional or airless spray.

### Precautions

**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 dewpoint. Do not overcoat before the minimum overcoat interval 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 for two pack heavy-duty topcoats or directly over galvanised iron.**

### Clean Up

#### Clean up thinner

Clean up with DULUX Mineral Turpentine or DULUX Duthin 340 Spray Thinner.

## 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**

## Disclaimer

This Data Sheet is copyright to DuluxGroup (Australia) Pty Ltd and/or DuluxGroup (New Zealand) Pty Ltd (collectively, 'Dulux'). It may not be varied or altered without the prior written consent of Dulux, and if it is, Dulux has no responsibility or liability for those variations.

Unless Dulux has provided you with a customised, project-specific specification, this Data Sheet does not represent that any particular product or product system will be suitable for your project.

Any information provided in this Data Sheet is given in good faith and is believed by Dulux to be correct at the time of publication. Products and coating systems can be expected to perform as indicated in this Data Sheet, provided the substrate is in good condition, the coatings are applied by a suitably experienced and skilled applicator, and the preparation, application and maintenance is followed strictly as set out in this Data Sheet, and as recommended on the applicable Safety Data Sheets for the relevant products, available from [www.duspecplus.com.au](http://www.duspecplus.com.au). Climatic conditions at application time can affect product suitability and performance.

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.

Where any liability of Dulux in respect of this Data Sheet cannot by law be excluded, Dulux's liability is limited, as permitted by law and at Dulux's option, to resupply of the relevant products or services or to reimbursing the cost of those products or services.

**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.