METALSHIELD® QD PRIMER
Rapid Drying Zinc Phosphate Primer

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

**USES**
METALSHIELD® QD PRIMER is an anti-corrosive shop or field primer used for the protection of steel in mild industrial and commercial environments.

The rapid dry formulation of METALSHIELD® QD PRIMER is ideal where fast turn-around is required. METALSHIELD® QD PRIMER is particularly suitable for use with METALSHIELD® QD ENAMEL TOPCOAT for time-critical jobs, or with METALSHIELD® PREMIUM where longer gloss retention is desired.

**SPECIFICATIONS**
AS3750.19 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. |
| HEAT RESISTANCE | Up to 120°C dry heat |
| SALTS | Unaffected by splash and spillage of neutral salt solutions |
| ACIDS | Not recommended where fumes, splash or spillage may occur |

**SOLVENTS**
Resists alcohols, mineral turpentine. Poor resistance to esters, ketones, ethers, chlorinated solvents and similar strong solvents

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

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

**ABRASION**
Moderate when fully cured

**TYPICAL PROPERTIES AND APPLICATION DATA**

**CLASSIFICATION**
Zinc phosphate shop primer

**FINISH**
Flat

**COLOUR**
Grey, Red Oxide, Black, Green (Made To Order) and Deep Cream (Made To Order)

**COMPONENTS**
One

**VOLUME SOLIDS**
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

**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**

| Air Temp. | 5°C | 45°C |
| Substrate Temp. | 5°C | 45°C |
| Relative Humidity | 85% |

**COATING THICKNESS (MICRONS)**

| Wet film per coat (μm) | Min | Max | Recommended |
| Dry film per coat (μm) | 30 | 40 | 35 |

**SUITABLE SUBSTRATES**
Abrasive blast cleaned or power tool cleaned steel

**PRIMERS**
Not applicable

**TOPCOATS**
Dulux® Metalshield® topcoats

**APPLICATION METHODS**
Conventional, airless spray or air assisted spray

**SPREADING RATE**
9.1 square metres per litre equals 35 μm dry film thickness

**NOTE:** Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

**DRIED CHARACTERISTICS AT 35 μm DRY FILM THICKNESS**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Humidity</th>
<th>Touch</th>
<th>Handle</th>
<th>Full Cure</th>
<th>Min</th>
<th>Max*</th>
</tr>
</thead>
<tbody>
<tr>
<td>25° C</td>
<td>50%</td>
<td>10 Minutes</td>
<td>45 Minutes</td>
<td>7 Days</td>
<td>2 Hours</td>
<td>Extended</td>
</tr>
</tbody>
</table>

*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.
**METALSHIELD® QD PRIMER**

**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.

<table>
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<tr>
<th>SURFACE</th>
<th>ENVIRONMENT</th>
<th>PREPARATION GUIDE</th>
<th>SYSTEM</th>
<th>DFT (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL – NEW</td>
<td>Low-corrosivity (AS2312.1 Cat C2-3) System ALK6</td>
<td>Abrasive blast AS1627.4 Class 2</td>
<td>1st Coat Metalshield® QD Primer</td>
<td>35 μm</td>
</tr>
<tr>
<td>STEEL – NEW</td>
<td>Low corrosion (AS2312.1 Cat C2)</td>
<td>Abrasive blast AS1627.4 Class 2</td>
<td>1st Coat Metalshield® QD Primer</td>
<td>35 μm</td>
</tr>
<tr>
<td>STEEL – NEW</td>
<td>Interior (AS2312.1 Cat C1)</td>
<td>Power tool clean AS1627.2 St 3</td>
<td>1st Coat Metalshield® QD Primer</td>
<td>35 μm</td>
</tr>
<tr>
<td>STEEL – NEW</td>
<td>Interior (AS2312.1 Cat C1)</td>
<td>Power tool clean AS1627.2 St 3</td>
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<td>35 μm</td>
</tr>
</tbody>
</table>

**NOTE:** If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.

**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. Degrease with Gamlen CA 1 (a free-rinsing, alkaline detergent) according to the manufacturer’s data sheet. Abrasive blast clean to a minimum of AS1627.4 Class 2.5 with a blast profile of 40 – 70 microns. Remove all dust, dusting or vacuum. **Steel where abrasive blast cleaning is not viable:** Rust, mill scale, oxides deposits and old paint must be removed by power tool cleaning according to AS1627.2 Class 2. Coating performance is proportional to the degree of surface preparation.

**APPLICATION**

**BRUSH/Roller** Mix each can thoroughly using a power mixer until the contents are uniform. Remix thoroughly before application. 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 aid 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%.

**AIRLESS SPRAY**

Typical Set-up

- Graco AirPro:
  - Pressure at Triton 308: 70-100 kPa (10-15 p.s.i.)
  - Pressure at Gun: 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® Representative 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 5°C. Do not apply at relative humidity above 85% or when the surface or object to be painted is dry. Do not apply at temperatures below 5°C. Do not apply at relative humidity above 85% or when the surface or object to be painted is dry. Abrasive blast cleaned surfaces must be primed within 4 hours. NOTE: 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**

Degrease with Gamlen CA No. 1 according to the manufacturer’s written instructions and all safety warnings. 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 (15 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. Always wash hands before smoking, eating, drinking or using the toilet.

**USING**

Use with good ventilation and avoid inhalation of spray mist 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.

**COMPANY INFORMATION**

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

**PACKAGING, TRANSPORT AND STORAGE**

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

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