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## TECHNICAL INFORMATION SHEET

March 2009

TDS 210 page 1 of 3

# 210 METALPRIME

## Zinc Phosphate Primer

### Description and uses:

210 Metalprime is an alkyd based zinc phosphate anticorrosive primer for the protection of structure steel with the following features:

- Non toxic dried film.
- Quick drying.
- Available in a variety of colours .
- Suitable primer for all Lacnam enamels.

Typical areas of application are:

- Structural steel, trusses etc.
- Cranes, earthmoving and mining equipment.
- Transportation and materials handling industries.

### Technical Specifications:

FINISH: Matt finish in various colours.

THINNERS: T102 or T104.

VOLUME SOLIDS: 40 - 42% Depending on colour.

VOC: 540gms/litre. (Grey).

COVERAGE: 8.0 - 9.0 Square metres per litre (at a D.F.T. of 50 microns).

RECOMMENDED FILM THICKNESS: 40 - 60 microns.

APPLICATION: Conventional or Airless Spray.

DRYING AT 25°C / 50% Humidity: Touch dry – 1 – 2 hours

Recoat – after 4 hours

Hard dry – over night.

# 210 METALPRIME

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March 2009

TDS 210 page 2 of 3

<b>APPLICATION DETAILS – PAINTING SYSTEMS</b>			
D.F.T. um			
System 1	1 <sup>st</sup> Coat	40-60	210 Metalprime (Thinner T102 or T104)
	2 <sup>nd</sup> Coat	25-45	310, 390 or 480 enamel (Thinner T102 or T104)

D.F.T. um			
System 2	1 <sup>st</sup> Coat	40-60	210 Metalprime (Thinner T102 or T104)
	2 <sup>nd</sup> Coat	25-45	300 enamel (Thinner T102)

<b>APPLICATION DETAILS – SURFACE PREPARATION</b>		
SUBSTRATE	DETAILS	RECOMMENDED SYSTEM
Steel	Power tool clean to AS1627.2 class 2 Or abrasive blast clean to AS1627.4 Class 2	1 or 2

### Surface Preparation:

- When overcoating; Aged paint coatings should be tested for adhesion using Crosshatch or Crosscut methods. If aged paint coating lifts remove it.
- Remove all rust, oxides, millscale and loose paint from metal surface.
- Round off all sharp edges, welding joints and weld spatter.
- All surfaces to be painted should be clean and free from dust, dirt, oil, grease and moisture.
- All abrasive blast clean ferrous surfaces should be coated within 4 hours to avoid flash rusting.
- Do not apply at temperatures below 5° Celsius. Do not apply at relative humidity above 85%, or when the substrate surface is less than 3° Celsius above dewpoint.
- Applied 210 Metalprime coat subjected to exterior exposure for extended period of time should be accessed for “Chalking” before applying suitable topcoat to achieve optimum intercoat adhesion.

### **Equipment Application:** (Conventional or Airless Spray Recommended).

As a Guide Use:

Brush or Roller - Suitable for small areas only.

Conventional Spray - 1.5 -2.0mm tip (or equivalent). Pressure pot set at 55 - 100kpa (8 - 15psi) and maintain gun air pressure 275 - 380kpa (40 -55psi).

Airless Spray – Use heavy-duty airless spray with 10 -15 “(0.25 – 0.38mm) plus tip and pump ratio 30:1

# 210 METALPRIME

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March 2009

TDS 210 page 3 of 3

### **Application Thinning:**

Brush or Roller – Suitable for small areas only; May require Slow or Retarding Thinners (T195 / T122), to improve brushability. Thin initially 5%, then increase to suit.

Conventional Spray – Thin approximately 20% and apply.

Airless Spray - Thin approximately 5 – 10% and apply.

Clean Up – T102, T104 or T134 All Purpose Thinner.

### **Safety Instructions:**

Storage: Store in a cool, dry banded area out of direct sunlight as required for Flammable liquids DG Class 3, PG II, Hazchem 3(Y)E.

Flammability: Highly flammable, all sources of ignition must be eliminated in or near area of use, on burning fumes emitted are toxic. Do not smoke in immediate area.

Handling: Adopt adequate Occupational Work Practices to avoid personal contamination with product. Always wash hands before smoking, eating, drinking or using toilet. Food and Drink should be to stored and consumed in separate area.

Personal Protection: Avoid contact with skin or eyes; wear suitable clothing such as impervious overalls, PVC or neoprene gloves, safety goggles and face mask.

Using: Avoid inhalation of spray mist and vapours – use with adequate ventilation and suitable Personal Protection Equipment (PPE).

Engineering controls: Ensure ventilation is adequate. When spraying, ensure product is applied in a fully functional spray-booth. Keep containers closed when not in use. Do not use near ignition sources.

### **REFER MSDS BEFORE USE**

(Phone 02 9688 1999 or refer to [www.lacnam.com.au](http://www.lacnam.com.au) for copy MSDS)

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