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## TECHNICAL INFORMATION SHEET

# 300 RD Enamel

May 2009

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### Description and uses:

300 RD Enamel is a rapid drying industrial enamel based on co-polymer alkyd resins, for the protection of metal surfaces in light industrial environments.

300 RD Enamel has the following features:

- Extremely fast drying and setup.
- Excellent recoating properties.
- High gloss and moderate exterior durability.

Typical areas of application are:

- Machinery, cabinets, furniture etc.
- Bridges, pylons, tanks etc.
- Electronic equipment housings.
- Earthmoving and materials handling equipment.

### Technical Specifications:

FINISH: High Gloss.

THINNERS: T102 or (T124 for electrostatic application).

VOLUME SOLIDS: 35% - 40% depending on colour.

VOC: 485 gms/litre. (White).

COVERAGE: 9 - 11 Square metres per litre (at a D.F.T. of 40 microns).

RECOMMENDED FILM THICKNESS: 30 - 40 microns.

APPLICATION: Conventional or Airless Spray.

DRYING AT 25°C / 50% Humidity: Touch dry:	15 minutes
Recoat:	2 hours
Hard dry:	Overnight.

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APPLICATION DETAILS – PAINTING SYSTEMS			
D.F.T. um			
System 1	1 <sup>st</sup> Coat	40-60	210 Metalprime (thinner T102 or T104)
	2 <sup>nd</sup> Coat	30-40	300 RD Enamel (thinner T102 )
	3 <sup>rd</sup> Coat	30-40	Optional 300 RD Enamel (thinner T102 )

D.F.T. um			
System 2	1 <sup>st</sup> Coat	5-10	258 Twin Pack Etch or 260 Keycoat (thinner T166)
	2 <sup>nd</sup> Coat	30-40	300 RD Enamel (thinner T102 )
	3 <sup>rd</sup> Coat	30-40	Optional 300 RD Enamel (thinner T102 )

D.F.T. um			
System 3	1 <sup>st</sup> Coat	10-20	300 RD Enamel (thinner T102, 30% reduction )
	2 <sup>nd</sup> Coat	30-40	300 RD Enamel (thinner T102 )
	3 <sup>rd</sup> Coat	30-40	Optional 300 RD Enamel (thinner T102 )

APPLICATION DETAILS – SURFACE PREPARATION		
SUBSTRATE	DETAILS	RECOMMENDED SYSTEM
Steel	Power tool clean to AS1627.2 class 2 Or abrasive blast clean to AS1627.4 Class 2.	1, 2
Aluminum, Galvanized Steel or Zinc Anneal	Light abrasive blast or treat with 212 Metal Clean	2
Previously Painted Surfaces	Lightly sand glossy areas, wash down with cleaning solvent	2
Concrete Flooring (Not subjected to solvent or chemical contact).	New concrete must be fully cured. Light abrasive blast or acid etch <b>Note:</b> Thin first coat 30% with T102	3

## 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.

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

As a Guide Use:

Brush or Roller - Suitable for small areas only.

Conventional Spray - 1.3 -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

## **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 20-25% 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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