



# Isotal Enamel

## Modified Alkyd Gloss

Data Sheet

### FEATURES

**Advantages:**

- Durable high gloss finish
- Interior or exterior usage
- Marine quality
- Excellent weathering properties
- Excellent flow and leveling
- Good corrosion resistance in normal - mildly acidic fume areas
- High hiding
- Washable and scrubbable
- Good abrasion resistance
- Easy application by brush, roller or spray
- Safe – All colours lead and chrome free
- Available with **Ultra-Fresh Antimicrobial Additive** where hygienic germ-free coating systems are required

**Approval:**

New Zealand MAF Meat, Fish and Game Division

### RECOMMENDED USES

**Isotal Enamel is a premium quality alkyd gloss enamel which is designed to protect and give good appearance to:**

- Properly primed steel and other metal surfaces
- Tank exteriors
- Bridges and pipes
- Marine exterior areas such as freeboards, decks, houses and superstructures
- Marine interior areas such as engine rooms, passageways and equipment
- Farm equipment / restoration projects

### SPECIFICATION DATA

**Coating Type:** Modified Alkyd

**Colours:** NZ: White, Black, Golden Yellow (LF), Selected BS, AS2700 & Resene Colours  
Aust: White.

**Packaging:** NZ: 1 and 4 litres  
Aust: 1, 4 and 20 litres  
Single component

**Gloss:** High Gloss

**Flash Point:** 38°C Setaflash

**Thinner:** Altex Thinner #45 – Brush  
  
Altex Thinner #53 – Spray

**Pot Life:** N/A

**Induction Time:** N/A

**Shelf Life:** 12 months

**Storage:** Store under cool, dry conditions

**Density:** 1.21 kg per litre

**VOC:** 406g/ litre

**Temperature Resistance:** 90°C in air  
Light colours may discolour above 50°C

**Volume Solids:** White and colours 50%

**Theoretical Coverage Rate:**  
12.5 sq metres per litre at 40 microns DFT

**Recommended Film Thickness Per Coat:**  
80 microns wet to obtain 40 microns dry  
*With 25% thinner addition for spraying:*  
100 microns wet to obtain 40 microns dry

**Application:** Spray, brush or roller

**Dry Times (25°C / 40µm DFT / 50% RH):**

Tack Free:	4 hours
To Recoat:	Overnight
Max. Recoat without sanding:	10 days

## SURFACE PREPARATION

### New Surfaces:

All surfaces must be sound and free of oil, grease, dirt, form release agents, curing compounds, loose and flaking paint, moisture and other foreign substances and primed as follows:

**Steel** - High Build Rust Barrier, Multibond, or Pre-Fab Primer.

**Galvanised Steel** - Altra-Etch® plus Isotal Undercoat.

**Wood** – Multibond and/or Isotal Undercoat.

### Previously Painted Surfaces:

Remove loose and peeling paint. Clean with Altex P40 Prepainting Cleaner. Abrade surface before priming bare areas with either Isotal Undercoat or High Build Rust Barrier.

## DIRECTIONS FOR USE

### Mixing:

Use mechanical agitation for proper mixing to ensure homogeneous condition. Stir until thoroughly mixed.

### Thinning:

**Brushing & Rolling** - at lower temperatures up to 10% Altex Thinner #45 is recommended.

**Spraying** - addition of 15-25% Altex Thinner #53 is recommended.

### Gloss Reduction:

The gloss level of Isotal may be reduced by the addition of small amounts of Isotal Undercoat. This is especially suitable for pastel and off white colours for interior use.

Gloss reduction will alter the tone of darker, richer colours.

Testing of the colour and degree of gloss reduction is strongly recommended.

### Application:

Isotal may be applied by brush, roller or spray.

When application is made by conventional spray, use the lowest air pressure that will achieve good atomization in order to minimise overspray.

Isotal should be applied in one wet coat, overlapping each pass 50%.

### Suggested spray equipment:

#### Conventional Air Spray

1.0mm to 1.4mm Fluid tip with appropriate air cap.

#### Airless Spray

Pump Ratio	30:1
Material Hose	3/8" I.D min
Tip Size	0.015 – 0.019

(Note: The above is a guide. Other equipment to the above may be used.)

#### Spreading Rate:

Theoretical 80 microns wet to obtain 40 microns dry. Actual coverage will vary depending on substrate and application method. Certain shades of yellow, orange and red may require multiple coats to attain complete hiding.

#### Clean-up:

Use Altex Thinner #45 or #53.

## PRECAUTIONS

For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label and the Material Safety Data Sheet (MSDS) for health and safety information prior to use.

**Isotal** is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

## WWW.ALTEXCOATINGS.COM

### **Head Office New Zealand Altex Coatings Ltd**

91-111 Oropi Road  
Greerton, Tauranga 3112

Ph : +64 7 541 1221  
Fax : +64 7 541 1310

### **Head Office Australia Resene Paints (Aust) Ltd Industrial & Marine Division**

7 Production Avenue, Molendinar  
Queensland 4214

Ph : +61 7 5512 600  
Fax : +61 7 5512 697

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