



# High Build Rust Barrier

## Modified Alkyd Zinc Phosphate Primer

Data Sheet

### FEATURES

#### Advantages:

- Inhibits corrosion of steel-with high levels of Zinc Phosphate
- Capable of high film build per coat
- Lead free
- Superior performance on power and hand tool cleaned surfaces
- Easy application by brush, roller or spray
- Excellent flow and levelling

#### Limitations of Use:

- Do not use in chemical and/or continuous wet exposure
- Not recommended under chlorinated rubber or urethane finishes unless fully cured (approximately 48 hours) – refer to Altex Technical Services

#### Approvals:

- MAF Meat, Fish and Game Division
- AS4089-1993 : Type 1 and 2 primer  
Meets and exceeds AS4089-1993<sup>1</sup> in particular adhesion and performance clauses:  
5.5.4; 5.5.5; 5.5.6

\* Independently assessed by NZ DSIR (1992), Report No. SCPP 92/1160T

Meets requirements of AHB 522-1994 (Auckland Harbour Bridge maintenance)

### RECOMMENDED USES

High Build Rust Barrier is a premium quality alkyd zinc phosphate primer which is designed to give superior protection to steel. It is recommended for use on:

- Structural steel
- Tanks
- Industrial and farm equipment
- Bridges, pipe bridges, roof trusses
- Cranes

### SPECIFICATION DATA

<b>Coating Type:</b>	Modified Alkyd Zinc Phosphate
<b>Colour:</b>	NZ: Grey-Green and Red
<b>Packaging:</b>	NZ: 1, 4 and 20 litres Single component
<b>Gloss:</b>	Matt
<b>Pot Life:</b>	N/A
<b>Mix Ratio:</b>	N/A
<b>Flash Point:</b>	38°C Setaflash
<b>Thinner:</b>	Altex Thinner #45 – Brush Altex Thinner #53 – Spray
<b>Storage:</b>	Store under cool, dry conditions

<b>Density:</b>	1.32 kg per litre
<b>VOC:</b>	465g/ litre
<b>Volume Solids:</b>	45%

#### **Theoretical Coverage Rate:**

9.0 sq metres per litre at 50 microns DFT

#### **Recommended Film Thickness Per Coat:**

111-167 microns wet to obtain 50-75 microns dry

**Application:** Spray, brush or roller

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

Touch Dry	2 hours
To Recoat and Handle	12-18 hours
Hard Dry	24 hrs at 50µm 36 hrs at 75µm

#### **Maximum Recoat**

Self	1 month
With enamel finishes	2 weeks

## SURFACE PREPARATION

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.

For the best results abrasive blast to AS 1627.4 Class 2 (SSPC SP6), or better. For mild conditions hand or power tool cleaning to SSPC SP2 or 3 may be satisfactory.

High Build Rust Barrier is also compatible with, and is recommended to be applied over Rust Inhibiting Penetrating Oil (RIPO).

Ensure that the treated surface is clean, dry and free of surface contamination.

In some instances, High Build Rust Barrier may be used as an excellent tie coat between unknown, aged coatings

Normal surface preparation in this instance is to degrease the surface prior to sanding with 60-120 grit non-stearate sandpaper.

## DIRECTIONS FOR USE

### **Mixing:**

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

### **Thinning:**

For spray application, thin up to 10% with Altex Thinner #53.

For brush application, thin up to 10% with Altex Thinner #45, if necessary.

Note: Excessive thinning can cause low film thickness, sagging and other film defects.

### **Application:**

High Build Rust Barrier may be applied by brush, roller or spray.

High Build Rust Barrier should be applied in one wet coat, overlapping each pass 50%.

Suggested spray equipment:

### **Conventional Air Spray**

1.4mm to 2.2mm 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.)

### **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.

**High Build Rust Barrier** 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.

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