

# Metalox<sup>®</sup> Etch

## Polyvinyl Butyral Etch Primer

### PRODUCT DESCRIPTION

A one component, low build, 10% solids polyvinyl butyral self etching coating designed to promote adhesion to ferrous, non ferrous, galvanising, stainless steel, aluminium and fibreglass.

### INTENDED USES

- Priming to colorbond and zincalume roofs
- Priming of galvanised steel, Zinc Coated Steel, Aluminium and Stainless Steel
- Priming of steel for the overcoating of Liquimix polyurea and hybrid membranes for abrasion resistance
- Trailers, Off road equipment and vehicles

### FEATURES

- Excellent adhesion
- One Pack
- Corrosion resistant
- Rapid Drying
- Full cure down to 5°C

### PRODUCT DATA

<b>Volume Solids</b>	10%
<b>Theoretical Coverage</b>	10 Square meters / Litre at 10 Microns DFT
<b>Finish</b>	Pigmented
<b>Colour</b>	Grey
<b>Gloss</b>	Satin
<b>Mixing Ratio</b>	Single Pack
<b>Pot Life</b>	1 Hrs @ 25°C
<b>Typical Thickness</b>	5 to 10 Microns DFT (50 to 100 Microns WFT)
<b>Cleaner</b>	LM1 Thinner
<b>Flash Point</b>	< 10°C
<b>VOC</b>	740 g/L
<b>Specific Gravity</b>	0.90

### CURE & RECOAT

Substrate Temp	Tacked	Hard Dry Note 1	Minimum Recoat Time	Maximum Self Recoat Time Note 2
5°C	20 Mins	16 Hrs	8 Hrs	1 Day
10°C	15 Mins	12 Hrs	6 Hrs	1 Day
15°C	10 Mins	8 Hrs	4 Hrs	1 Day
25°C	5 Mins	4 Hrs	2 Hrs	1 Day
40°C	2 Mins	2 Hrs	1 Hrs	1 Day

Note 1: Full cure 7-14 days. Pull-off adhesion testing is best conducted after at least 3 Days cure

Note 2: Where the Metalox Etch is exposed to direct sun and UV, the maximum recoat time will be considerably reduced. Contact Liquimix for advice

### ENGINEERING DATA

Property	Method	Results
Adhesion Testing	ASTM D4541	> 5 MPa

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## POT LIFE

Mixed Product Temperature	Gel Time (Note 1)
10°C	4 hrs
15°C	2 hrs
25°C	1 hrs
40°C	0.5 hr

**Note 1:** Pot Life is dependent on product temperature and humidity. Keep products cool

## LIMITATIONS

- Pot Life is dependent on temperature and Humidity
- Thin film dry times are dependent on temperature and film thickness
- Higher cure temperatures and direct exposure to the sun will shorten the recoat times
- Product requires up to 14 days to develop full physical properties and adhesion. Pull-off or other adhesion testing might not produce accurate results during this period
- Do not apply to lead
- Not suitable for prolonged exterior use as a one coat decorative finish

## SURFACE PREP

### Steel

1. Remove all rust, mill scale, oil and any previously applied coatings back to bare clean steel using abrasive blast. Welds should have slag and spatter fully removed.
2. Abrasive blast to Sa2½ (ISO 8501-1:2007) or SSPC-SP10. A sharp, angular surface profile of 60-100 microns is recommended.
3. For permanent immersion remove any soluble salts on the steel surfaces. The concentration of soluble salts must be less than 5 micrograms/cm<sup>2</sup>

### Galvanised Steel, Zinc Coated Steel, Aluminium and Stainless Steel

1. Polished surfaces should be lightly abraded
2. Clean and degrease.

## APPLICATION

### Equipment

Single Component Graco Airless Pump	Tip Range 13-15 Thou (0.38-0.43 mm). Output fluid pressure at spray tip not less than 2000 Psi (140 kg/cm <sup>2</sup> )
Pressure Pot	Output fluid pressure not less than 350kPa
Roller and Brush	Suitable for small areas
Temperature of material at gun:	Ambient

### Environment

Relative humidity:	The relative humidity must be less than 85%
Dew point:	The substrate temperature must be at least 3°C higher than the dew point temperature

# Metalox® Etch

Substrate Temperature: | The substrate temperature must be a minimum of 5°C

## Mixing

Always stir Metalox Etch in its original containers well before use.  
Avoid entrapping air during mixing

## Thinning

Thinning of Metalox Etch is not considered necessary or desirable.

## Cleanup

LM1 Thinner may be used for general clean-up of equipment and hoses. For soaking of contaminated metal parts use SWELL. The use of plastic soak containers with clip on lids and removable baskets makes the job easier. Replace the SWELL regularly as soon as it starts turning cloudy and dirty.

NOTE: NEVER USE SWELL TO CLEAN PAINTED SURFACES AS IT WILL STRIP THE PAINT. NEVER USE SWELL TO FLUSH PUMPS AND HOSES. DO NOT ALLOW SWELL TO COME INTO CONTACT WITH THE OUTSIDE PROTECTIVE POLYURETHANE COVER OF HOSES.

## COMPATIBILITY

### Primers

No Data

### Topcoats

Elaston W80  
Tufflon P80  
Tufflon P90  
Hybron W90  
Hybron H90

## TYPICAL SYSTEM

Substrate	Environment	Substrate Prep	Coat	System	DFT
Colorbond or Zinalume	Colorbond or Zinalume Roof	Lightly abrade with nylon Scourer	1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat 3 <sup>rd</sup> Coat	Metalox Etch Hybron W90 Opalon S30	10µm 3000µm 100µm
Galvanised steel	Galvanised Trailer	Lightly abrade with nylon Scourer	1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	Metalox Etch Hybron W90	10µm 3000µm
Steel	Structural Steel External	Abrasive Blast SA 2.5	1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	Metalox Etch Tufflon P90	30µm 3000µm

## STORAGE & HANDLING

Store in dry, shaded conditions away from sources of heat and ignition and in original properly sealed containers. Protect from heat and frost. Protect contents from moisture.  
A shelf life of 12 months minimum is typical with unopened containers if stored at ambient conditions at 25 °C.

## PACK SIZE

20L Kits  
20L of Reprime in a 20L Container

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## 4L Kits

4L of Metalox Etch in a 4L Container

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### **HEALTH & SAFETY**

Metalox Etch is for professional use only.

This product should not be used without consulting the Safety Datasheet (SDS) as published on the Liquimix website first.

Please observe all health and safety as well as environmental legislation that applies in your state

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### **DISCLAIMER**

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