

# METZ METAL PRIMER

## EPOXY ZINC PHOSPHATE PRIMER



### DESCRIPTION:

Metz Metal Primer is a two-part epoxy zinc phosphate specifically designed for use as a primer on mild steel under Metz topcoats such as Metz 5EN and Metz 4HB-EN. Also used as a coating for mild steel reinforcement when undertaking concrete remediation projects.

Metz Metal Primer can also be used on other substrates, such as aluminium and galvanised steel

### FEATURES AND BENEFITS:

- High performance anti-corrosive primer
- Compatible with zinc based primers
- Can be top coated with a range of different products
- Excellent resistance to salt water, alkalis, hydrocarbon solvents and dilute acids
- Fast setting hardener available for use in low temperatures
- Quality Accreditation  
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

### RECOMMENDED:

As a primer on mild steel and other substrates, under Metz 5EN-Coating and other topcoats.

As a coating on mild steel reinforcement prior to concrete remediation using Metz materials.

### PHYSICAL PROPERTIES: (Typical Values)

Mix ratio (by volume):	4 parts liquid to 1 part hardener
Finish:	Semi-gloss
Solids (by volume):	70%
Colour:	Grey
Pot life @ 25°C:	3 hours
Finished Dry Film Thickness:	125 microns
Maximum Service Temp	110°C

### COVERAGE:

Theoretical quantities (allow for wastage)

For 180 micron wet film = 125 micron dry film, 5.5sq.m per litre.

Practical coverage will depend on factors such as method and conditions of application and surface roughness.

### APPLICATION CONDITIONS:

Relative humidity must be below 85%.

The surface temperature of the substrate must be at least 3°C above the dew point. For optimum results, maintain a temperature of 10°C to 35°C on air, substrate and components during application and curing.

For temperatures below 20°C, it is recommended that the fast hardener be used. Application in direct sunlight and/or rising surface temperature may result in blistering.

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### INSTRUCTIONS FOR USE

#### 1. Temperature of Working Area

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#### 2. Surface Preparation

All surfaces to be coated must be clean and dry. Remove all oil, grease and other contaminants that may inhibit bond.

Mild steel surfaces should be abrasive blasted to AS1627.4 Class 2.5 minimum. For immersion conditions, Class 3 is required.

Aluminium and galvanised steel should be lightly abraded.

For mild steel reinforcement remove all iron oxide (rust) by grit blasting or other mechanical means. Do not use rust converters/dissolvers without prior approval of Metz.

For recommended surface preparation for other substrates, consult Metz.

#### 3. Mixing

Mix liquid component with a slow speed drill for a minimum of 30 seconds and at least until all material is of consistent appearance.

##### a) Mixing Equipment

Mechanical mixing is recommended. A low speed mixer or a heavy duty drill with a suitable mixing paddle can be used. Use equipment and procedures that minimise the entrapment of air in the mix.

##### b) Mixing Proportions

Metz Metal Primer is supplied in pre-measured kits. If smaller quantities are required, the mixing ratio is:

By Volume

Metal Primer Liquid 4 parts

Metal Primer Hardener 1 part

##### c) Mixing Procedure

Thoroughly remix liquid and hardener components prior to use. Mix liquid and hardener together thoroughly. Allow to stand for 10 minutes. Thoroughly remix before use.

##### d) Pot Life at 25°C

With standard hardener 3 hours

With fast setting hardener 2 hours

##### e) Clean Up

Mixing equipment can be cleaned with Metz Cleaner, acetone or MEK prior to initial use.

Airless Spray - Recommended spray equipment is Graco Xtreme 45:1 with a fluid tip of 17-21 thou (0.43 - 0.55mm). thinning is not normally required.

Apply at a wet film thickness of between 100 and 200 microns. Recommended thickness is 180 microns wet (125 microns dry).

#### 5. Setting/Curing:

	Standard	Fast Setting
15°C, 50% Humidity		
Touch Dry	12 hours	5 hours
Overcoat, minimum	20 hours	10 hours
Overcoat, maximum	3 days	3 days
Light foot traffic	20 hours	10 hours
25°C, 50% Humidity		
Touch Dry	4 hours	2.5 hours
Overcoat, minimum	8 hours	6 hours
Overcoat, maximum	3 days	3 days
Light foot traffic	10 hours	6 hours

Full cure (all): 7 days

When using as a coating for mild steel reinforcement to be overlaid with Metz epoxy products it is recommended to apply after material becomes tacky, max overcoat period is 3 days.

#### 6. Storage

Store in original sealed containers in cool dry place. Under these conditions, minimum shelf life is 12 months.

#### 7. Safety Precautions

Avoid contact with skin and eyes.

Use Chemical goggles, PVC gloves and barrier cream.

Avoid build-up of fumes. Ensure adequate ventilation.

For full safety precautions refer to Safety Data Sheets for each component.

**Always ensure you have the latest data sheet version, refer [www.metz.net.au](http://www.metz.net.au)**

1. The customer must comply strictly with the instructions contained in this product data sheet. Metz is not responsible for any advice or variations to this data sheet which are not confirmed in writing.
2. If the customer has a claim against Metz in respect of any product supplied to the customer by Metz whether due to a fault in the product or the negligence or breach of contract by Metz or for any other reason:
  - a) Metz shall not be liable for any loss or damage including consequential loss or damage or loss of profits arising thereby;
  - b) Metz may at its option replace the defective product free of charge to the customer or refund all payments made to it by the buyer in respect of the defective product; and the maximum liability of Metz shall be the cost of replacing the defective product.