

# METZ EPOXY PLASTER



## DESCRIPTION:

Epoxy Plaster is designed to repair concrete substrates prior to application of coatings or toppings. It is used to fill small holes, air pockets and other irregularities and provide a smooth surface.

Epoxy Plaster is available in 2 grades:

Standard Grade: Long pot life, water washable

Rapid Grade: Fast setting, can be coated in 2 hours

## FEATURES AND BENEFITS:

- **High Bond Strength to many surfaces**
- **Solventless**  
100% solids formulation
- **Ease of application**  
Smooth paste consistency. Can be applied to horizontal, vertical and overhead surfaces.
- **Water Washable (Standard Grade)**  
Excess material can be cleaned with water prior to initial set.
- **Fast Setting (Rapid Grade)**  
Can be coated after 2 hours at 20°C.

## RECOMMENDED:

As a substrate repair material for use under many Metz epoxy and other products in

- Dairies and Milk Products Processing
- Breweries and Soft Drink plants
- Confectionery plants
- Food Processing plants
- Meat and Poultry plants
- Chemical plants

## NOT RECOMMENDED:

- For thicknesses above about 6mm.

## PHYSICAL PROPERTIES: (Typical Values)

Both Standard and Rapid Grades.

Density:	1.9 - 2.1g/cm <sup>3</sup>
Compressive Strength:	100 MPa
Adhesion to Concrete (ASTM D7234):	>1.5MPa (concrete failure)
Flexural Strength:	60 MPa
Co-efficient of thermal expansion per deg C:	75 x 10 <sup>-6</sup>

## COVERAGE: Theoretical quantities (allow for wastage)

2kgs per sq. metre per mm. of thickness.

## APPLICATION TEMPERATURE:

For optimum results, maintain a temperature of 10-40°C (for Standard Grade) on air and substrate and components during mixing, application and curing. Rapid Grade can be used at temperatures down to 5°C.



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## INSTRUCTIONS FOR USE

### 1. Temperature of Working Area

For optimum results, maintain a temperature of 10°C to 40°C on air and substrate and components during application and curing.

At temperatures below 10°C, the application becomes more difficult and curing is retarded. (Rapid Grade can be used down to 5°C).

Application in direct sunlight and rising surface temperatures may result in blistering of the coating due to expansion of entrapped air or moisture in the substrate.

### 2. Surface Preparation

All surfaces must be clean and free from oil, grease, water and other contaminants which may inhibit bond. Remove all standing water. For best results, surfaces should be dry.

**New Concrete:**

New concrete should have attained a compressive strength of 20MPa minimum. Surface must be free from laitence, form oils and curing compounds. The surface should have a fine wood floated or lightly broomed finish and be 28 days old. Surface moisture content should be less than 5%. Consult METZ for details of testing equipment.

**Old Concrete:**

Concrete must be sound. Remove laitence, old paints, protective coatings and attacked or deteriorated concrete. Chemically clean surface to remove any contaminants. Abrasive blast or high-pressure water blast to remove laitence and provide a uniform, textured surface.

All prepared surfaces must be allowed to dry prior to coating application.

All surfaces must be vacuumed to remove any loose deposits and contamination.

### 3. Mixing

#### a) Mixing Equipment

Mechanical mixing is recommended. A special resinous cements mixer or festo mixer is suitable. Smaller quantities can be mixed using a heavy duty drill with a suitable paddle. Consult METZ for details.

#### b) Mixing Proportions

Standard Grade	By Weight	By Volume
Liquid	2	5.1 litres
Hardener	1	3 litres
P6 Powder	7	20kg (1bag)

Rapid Grade	By Weight	By Volume
Liquid	1.9	1.8
33 Rapid Hardener	1	1
P6 Powder	6	5

Note: The liquid to hardener ratio must not be altered under any circumstances

Powder portion can be adjusted to suit conditions.

#### c) Mixing Procedure

Re-mix liquids prior to use.

Mix liquid and hardener together first thoroughly for 1 minute. Add powder gradually with constant stirring. Mix for 2 to 3 minutes.

At the end of the mixing period, all material should be wetted out and uniform in colour and consistency.

Material which has begun to set must be discarded.

Do not add any solvent, additive or adulterant to any component, or to the mixed material.

#### d) Pot Life:

at 20°C Standard Grade: 90 minutes

Rapid Grade: 10 minutes

Note: Increase in temperature will decrease pot life, as will leaving mixed material in a large mass. Spread out material in a thin layer as soon as possible after mixing.

#### e) Clean Up

**Standard Grade:** Mixing equipment, tools etc can be cleaned with water prior to initial set of cement.

**Rapid Grade:** Use Metz Cleaner, xylene, acetone or MEK for cleaning.

Note: Ensure you have the latest mixing instructions, refer [www.metz.net.au](http://www.metz.net.au) for most current data sheet version.

### 4. Installation

Material should be placed immediately after mixing. Do not let mixed material remain in mixing vessel.

Apply by squeegee, rubber float etc to prepared substrate.

Remove excess material with edge of squeegee or float.

Finishing should be completed within 90 minutes of mixing at 20°C (Standard Grade) or within 10 minutes (Rapid Grade).

### 5. Setting/Curing

Setting Time: Standard Grade: Overnight at 20°C

Rapid Grade: 2 hours at 20°C

Full Cure: Standard Grade: 7 days at 20°C

Rapid Grade: 2 - 3 days at 20°C

### 6. Storage

Minimum shelf life is 12 months if liquid and hardener kept in sealed containers under cool dry conditions. Hardener will react with moisture in air if left exposed.

### 7. Safety Precautions

**Liquid and Hardener**

Use chemical goggles, PVC gloves and barrier cream. Avoid contact with skin and eyes.

**Powder**

Avoid breathing dust. Ensure adequate ventilation.

For full safety precautions refer to Material Safety Data Sheets for all components

- 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.
- 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:
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  - 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.

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