

## 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

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## 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.
- Quality Accreditation  
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

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## RECOMMENDED:

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

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

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## NOT RECOMMENDED:

- For thicknesses above about 6mm
- As a standalone coating for floors subject to wheeled traffic, refer Metz 33-TG

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## PHYSICAL PROPERTIES:

(Typical Values)

Both Standard and Rapid Grades.

Density:	0.85 - 0.90g/cm <sup>3</sup>
Compressive Strength:	25 MPa
Adhesion to Concrete (ASTM D7234):	>1.5MPa (concrete failure)
Co-efficient of thermal expansion per deg C:	40 x 10 <sup>-6</sup>

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## COVERAGE:

 Theoretical quantities (allow for wastage)

0.9kgs per sq. metre per mm. of thickness.

## 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

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 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	5.4 litres
Hardener	1	3.15 litres
P8 Powder	2	6kg (1 bag)

Rapid Grade	By Weight	By Volume
Liquid	1.9	5.4 litres
33 Rapid Hardener	1	2.9 litres
P8 Powder	1.9	6kg (1 bag)

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: 60 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. Surface can be finished with a short nap roller.

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.

### 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 Safety Data Sheets for all components

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

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