

# METZ EPOXY SEALER

## WATER-BASED CONCRETE SEALER



### DESCRIPTION:

Metz Epoxy Sealer is a two-part, water-based epoxy sealer for use on concrete surfaces. Metz Epoxy Sealer provides a barrier against penetration of water, salts and other mildly corrosive solutions as well as oils and petroleum products. It is solvent-free and water only is required for clean-up. Metz Epoxy Sealer is water vapour permeable and can be applied on damp or green concrete. Metz Epoxy Sealer can be used as a curing compound for concrete.

### FEATURES AND BENEFITS:

- Solvent-Free - Zero volatile organic compounds (VOC). Not classified as Dangerous Goods for transport.
- Water-based - Tools can be cleaned with water. No solvents required. Low odour.
- Water vapour permeable - Allows water vapour transmission so is not subject to osmotic blistering. Can be applied to concrete slabs on grade without vapour barriers beneath.
- Can be applied to green concrete -Excellent bond to 1 day old concrete
- Fast film-drying and cure
- Slip Resistant Additive Available - For increased slip resistance an additive is an available option.
- Conforms to AS 3799 - "Liquid membrane - forming curing compounds for concrete".

### RECOMMENDED:

As a sealer for concrete surfaces in:

- Warehouses and Storerooms
- Garages and Car Parks
- Retail Areas
- Production Areas

Metz Epoxy Sealer can also be used as a sealer on other masonry surfaces, brickwork etc. and as a primer for resin-based coatings. Consult Metz for details.

Note: Metz Epoxy Sealer in an industrial finish not an architectural finish. There can be slight variations in colour, gloss etc

### NOT RECOMMENDED:

- For areas subject to strong chemicals. Refer Metz 4HB or 4HB-EN.
- Where solid colour paint coating required. Refer Metz 4HB

### PHYSICAL PROPERTIES: (Typical Values)

	Before water addition	After water addition
Solids content % by weight:		
	Clear: 69%	50%
	Grey: 78%	50%
Adhesion to concrete (ASTM D7234):	>1.5MPa (concrete failure)	
Available colours:	Clear, Grey. Other colours manufactured to order.	
Metz Epoxy Clear Sealer complies with requirements of AS 3799, applied at rate of 7m <sup>2</sup> /litre.		
Water retention efficiency:	91%	Viscosity: 0.3 Pa.s
Drying time:	4 hours	Density: 1.07 kg/litre

### COVERAGE: Theoretical quantities (allow for wastage)

For a 100 micron wet film thickness (50 micron dry film thickness):

One kit will cover: For Clear: 100 sq metres  
For Grey: 70 sq metres

When used as a concrete curing agent - one kit of clear will cover 70 sq metres (apply at rate of 7m<sup>2</sup>/litre)

Note: Two coats are normally required to produce a consistent finish.

### APPLICATION TEMPERATURE:

For optimum results, maintain a temperature of 10 - 35°C on air and substrate and components during mixing, application. The relative humidity should be below 85%.



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### INSTRUCTIONS FOR USE

#### 1. Temperature of Working Area

For optimum results, maintain a temperature of 10 - 35°C on air, substrate and components during application and curing. At temperatures below 10°C, the application becomes more difficult and curing is retarded.

At temperatures above 35°C the working time decreases. The relative humidity should be below 85%, otherwise drying may be retarded.

#### 2. Surface Preparation

All surfaces must be clean and free from oil, excess laitance, grease, dirt and other contaminants which may inhibit bond. Old coatings must be removed.

Concrete

New concrete should be free of excess laitance, form oils and curing compounds. Metz Epoxy Sealer can be applied on green concrete.

#### 3. Mixing

##### a) Mixing Equipment

Mechanical mixing is recommended. A slow speed heavy duty drill fitted with a rectangular paddle can be used. High speed mixers should not be used as they entrap air. Small quantities can be mixed using a trowel or spatula. Proper mixing is essential for a successful installation.

##### b) Mixing Proportions and Procedure

Metz Epoxy Sealer is available in kit form. A kit consists of a plastic pail containing pre-measured amounts of liquid and hardener. Empty liquid and hardener components into pail. Mix thoroughly. Add 3 litres of water and mix thoroughly again. An anti-slip additive is available if required. This should be added after liquid, hardener and water have been mixed, and thoroughly stirred through mix. Spread mixed material in a thin layer to maximise pot life.

Mixing ratios by volume:

	Clear	Grey
Liquid:	2.7 litres	2.7 litres
Hardener:	4.6 litres	2.2 litres
Water:	3.0 litres	3.0 litres

##### c) Pot Life

Approx. 90 minutes at 20°C. Pot life decreases with increase in temperature.

Note: Changes in colour and gloss can occur as the product reaches the end of its pot life. ensure material is applied well before end of pot life (eg: within 60mins at 20°C).

##### d) Clean Up

Mixing equipment and tools can be cleaned with water prior to initial set of sealer.

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

#### 4. Installation

Metz Epoxy Sealer can be applied by brush, roller or airless spray. Apply evenly over surface. Note that variations of porosity in the concrete surface can lead to surface variations in the Metz Epoxy Sealer. On very porous surface, more than two coats may be required. For spray instructions consult Metz.

When using as a concrete curing compound, apply Metz Epoxy Sealer over freshly laid concrete as soon as possible after final trowelling and when surface bleed water has disappeared.

#### 5. Setting/Curing at 20°C

Touch dry: 4 - 5 hours

Setting time: 8 hours

Full cure: 7 days

#### 6. Coverage (Theoretical- add for waste)

For a 100 micron wet film thickness (50 micron dry film thickness):

One kit will cover:

For Clear: 100 sq metres

For Grey: 70 sq metres

When used as a concrete curing agent, apply Metz Epoxy Sealer Clear at the rate of 7 sq metres per litre (70 sq metres per kit).

#### 7. Storage

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

#### 8. Safety Precautions

Avoid contact with skin and eyes.

Use barrier cream and wear protective gloves. For full safety precautions refer to the Material Safety Data Sheets.

Note: Neither Liquid nor Hardener is classified as Dangerous Goods for transport.

**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.

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### METZ SPECIALTY MATERIALS PTY LTD

A.C.N. 140 636 639

15A Stanton Road, Seven Hills NSW 2147  
Facsimile: (02) 9671 4292 Phone: (02) 9671 1311

6 University Place, Clayton North, VIC 3168  
Facsimile: (03) 9561 6944 Phone: (03) 9561 6144

Unit 16, 42 Smith Street, Capalaba QLD 4157  
Facsimile: (07) 3823 5552 Phone: (07) 3823 5555

### Distributor