



# 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.

### 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.

### 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.

### NOT RECOMMENDED:

- For areas subject to strong chemicals. Refer Metz 4HB or 4HB Epoxy Novolac.
- 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%
Bond strength to concrete:	Exceeds internal strength of concrete	
Available colours:	Clear, Grey. Other colours manufactured to order.	

### 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

### APPLICATION TEMPERATURE:

For optimum results, maintain a temperature of 10 - 35<sup>0</sup> C on air and substrate and components during mixing, application. The relative humidity should be below 85%.



CHEMICAL & CORROSION RESISTANT  
MATERIALS OF CONSTRUCTION





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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 (24 hours old).

#### 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.

For spray instructions consult Metz.

##### c) *Pot Life*

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

##### d) *Clean Up*

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

#### 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, two coats may be required.

#### 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

#### 7. 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.**

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