



# METZ 35M

## TAR EPOXY MEMBRANE/COATING

### DESCRIPTION:

METZ 35M is a 3 part epoxy resin/coal tar compound. It is suitable as a protective membrane under ceramic linings as well as a coating for pits and vessels.

### FEATURES AND BENEFITS:

- **Durable Membrane**  
Provides good bond between substrate and bedding mortar; protects substrate from chemical attack.
- **Corrosion Protection**  
Good resistance to wide range of chemicals including dilute acids, alkalis and salts. Refer METZ Chemical Resistance Chart.
- **Good Adhesion**  
Excellent bond to concrete, steel and portland cement based screeds.
- **Resilient**  
Will accommodate normal movements between substrate and tiling.

### RECOMMENDED:

- **Membrane** Corrosion resistant membrane used behind acid proof bricks and tiles.
- **Coating** Tanks, Vessels, Pits and Drains in the following industries:
  - Chemical Industry
  - Food and Beverage Processing
  - Waste Water Treatment Plants
  - Metal Processing
  - Petrochemical Industry

### NOT RECOMMENDED:

- As a coating when subjected to strong chemicals, abrasion and/or temperature above recommended limits.

### PHYSICAL PROPERTIES:

(Typical Values)

Density:	1.55-1.65 kg/litre
Colour:	Black
Temperature Limit:	Humid Heat 65°C      Dry Heat 100°C

### COVERAGE:

Theoretical quantity (allow for wastage)

- |  |                   |  |
|--|-------------------|--|
| • <b>Membrane for Ceramic Overlay:</b> | 3.0-3.5 kgs/sq.m. | 2mm approximately cured thickness.     |
| • <b>Tank or Pit Lining:</b>           | 5 kgs/sq.m.       | 3mm-4mm approximately cured thickness. |

### APPLICATION TEMPERATURE:

The recommended temperature range for application of METZ 35M is 10°C to 35°C.

At temperatures below 10°C, curing may be inhibited and final technical properties may be affected.

At temperatures above 35°C, consistency and drying rate may be affected.

If necessary, consult METZ.





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### INSTRUCTIONS FOR USE

#### 1. Surface Preparation

##### a) Concrete:-

All surfaces must be clean, sound, dust-free and dry. Strength should be consistent with service conditions. New concrete must have a fine, wood floated finish and be free from curing agents, form release agents etc., and be at least 14 days old. Abrasive blast or high-pressure water blast to remove laitance and provide a uniform, textured surface.

Old concrete must be clean and sound.

Contaminated and/or weakened areas must be cut out and patched with a suitable repair material, such as METZ 25 or approved repair material.

Rough areas must be resurfaced to a fine sand finish. All holes must be filled with METZ 25, or approved repair material and all protuberances removed.

##### b) Steel:-

All surfaces should be abrasive-blasted to AS1627:4, Class 2½ minimum.

#### 2. Mixing

##### a) Equipment:-

Mechanical mixing is recommended. A low-speed dough mixer or a heavy duty drill with a suitable paddle can be used. Small quantities can be mixed by hand, using a trowel or spatula.

##### b) Mixing Proportions:-

	By Weight	By Volume
Liquid	14	13
Hardener	1	1
Powder	18	16

##### c) Mixing Procedure:-

Mix the liquid and hardener together first, then add the powder gradually, whilst stirring. The liquid to hardener ratio must not be altered. The powder proportion may be adjusted slightly to suit conditions, maximum  $\pm 10\%$ .

##### d) Pot Life:-

Approximately 40 minutes at 20°C. Do not rework partially set material.

##### e) Clean Up:-

Use METZ Cleaner

#### 3. Application

##### a) Membrane - for ceramic and brick overlays:

Apply METZ 35M to properly prepared surfaces by trowel and then roll out using short-haired lambswool roller. Apply to 2mm minimum thickness.

##### b) Coating - without ceramic overlay:

METZ Epoxy Primer must first be applied. Consult Data Sheet for details.

Apply METZ 35M top coat over smoothing coat next day as per Application (a).

#### 4. Setting

Tack Free 12 hours at 20°C

Full Cure 7 days at 20°C

Allow overnight cure before applying ceramic overlay.

#### 5. Safety Precautions

##### a) Liquid and Hardener:

Use chemical goggles, PVC gloves and barrier cream.

##### b) Powder Use dust respirator and chemical goggles.

##### c) Cleaner Inflammable. Ensure adequate ventilation.

For full safety precautions refer to the Material Safety Data Sheet for each component.

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