

# METZ 27M

## FLEXIBLE CEMENTITIOUS MEMBRANE



### DESCRIPTION:

Metz 27M is a flexible membrane, used as an underlay beneath Metz ceramic tiling systems. Metz 27M meets the requirements of AS4858 as a Class III (high extensibility) membrane. Can also be used in swimming pool overflow gutters and balance tanks with protective overcoat.

### FEATURES AND BENEFITS:

- Waterproof - protects substrate from penetration of water and chemicals
- Suitable for use in swimming pools
- Tough but flexible - not a brittle product
- Excellent adhesion to concrete and cement screeds
- Liquid applied, eliminating joints and providing a continuous smooth lining for ceramic tile overlay
- **Quality Accreditation**  
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

### RECOMMENDED:

As a waterproof membrane used under Metz ceramic tiling systems in.

- Swimming pools
- Commercial kitchens, wash ups etc
- Food & Beverage industry flooring
- Bathrooms, balconies and other wet areas

Can also be used in swimming pool overflow gutters and balance tanks with protective overcoat of Metz 9HB.

### NOT RECOMMENDED:

- For use without a protective tile or coating overlay - refer Metz for alternative products
- To waterproof structural joints in swimming pools or other structures. Refer Metz Hypalon Bandage
- To waterproof concrete where cracks are expected to move more than  $\pm 2\text{mm}$
- In cases where negative hydrostatic pressure exists

### PHYSICAL PROPERTIES:

(Typical Values - Metz 27M Membrane)

Solid content:	78 - 82%
Density (mixed product):	1.35 - 1.45 g/cm <sup>3</sup>
Tensile Strength (7 days):	1.9 MPa
Elongation at break (7 days)	300%

### COVERAGE:

Theoretical quantities (allow for wastage). Usage rates can vary depending upon conditions of concrete.

Metz 27M Primer:	60m <sup>2</sup> /20 litre kit per coat
Metz 27M Membrane:	20m <sup>2</sup> /40kg kit for average 1.2mm Dry Film Thickness

### APPLICATION TEMPERATURE:

The recommended temperature range for application is 10°C to 40°C. In cool conditions indoors use fan to assist drying



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### INSTRUCTIONS FOR USE

#### 1. Temperature of Working Area

Maintain a temperature of between 10 and 40°C on substrate and air during mixing, application and cure.

At temperatures below 10°C, Metz 27M may not cure fully. At temperatures above 40°C, working time will be greatly reduced.

The material temperature should be below 35°C.

#### 2. Surface Preparation

All surfaces must be clean, smooth and dry. Remove all oil, grease and other contaminants that may inhibit bond. Concrete on grade should utilise a waterproof barrier beneath the slab.

a) *New Concrete* - Surface must be free from laitance, form oils and curing compounds. Surface should have a fine wood float finish. Air holes bigger than 1-2mm can reflect through membrane and so must be filled with high strength, non shrink cementitious grout or epoxy filler such as Metz Epoxy Primer/P8. If using cementitious product ensure all residue is removed from surrounding areas prior to Metz 27M Primer application. Any laitance should be removed by grinding or light abrasive blasting.

Minimum cure times:

	Swimming Pools	General Construction
Concrete	42 days	28 days
Cement screeds	21 days	7 days

b) *Old Concrete* - Concrete must be sound. Remove laitance, old coatings and attacked or deteriorated concrete. Chemically clean surface to remove any contaminants. Abrasive blast or high-pressure water blast to remove laitance and provide a uniform, textured surface.

#### 3. Mixing

Mix Liquid component with a slow speed drill for a minimum of 30 seconds and at least until the drum is of consistent appearance.

##### a) Mixing Equipment

Mechanical mixing is recommended. A low speed mixer or a heavy duty drill with an appropriate mixing paddle should be used.

##### b) Mixing Proportions

Primer and membrane are supplied as pre-made kits. If smaller quantities are required the mixing ratios are

Metz 27M Primer 1:1 by weight or volume

Metz 27M Membrane 1L of liquid to 1kg powder

##### c) Mixing Procedure

###### Metz 27M Primer

Premix individual components to a uniform colour and consistency then combine each component by equal volume and mix thoroughly. Allow to stand for 5 minutes before application.

Take care not to entrap air during mixing. This can cause pinholes.

#### Metz 27M Membrane

Add 8 litres of liquid to mixing bucket and while mixing with power mixer add one 10kg bag of powder and continue mixing until a thick smooth past is achieved. When the mixture is lump free add another 2 litres of liquid and continue mixing until homogeneous.

Allow to stand for 5 minutes then remix for a few seconds before use.

Remix every 20 to 30 minutes as required.

Discard mixed product that has not been applied within 2 hours or has become too thick to use. Do not thin or dilute.

#### 4. Installation

##### (i) Treatment of corners

All sharp internal corners must have a fillet (9x9mm) of polyurethane applied.

This should include wall/floor, wall/wall and internal corners of steps, step ledges and seats etc.

External corners should have the sharp edge removed to form a fillet or small radius

##### (ii) Metz 27M Primer

On porous surfaces apply an initial thin sealing coat diluted with 10 to 25% water and allow to dry.

Apply mixed materials to substrate with roller or brush at a rate of 3m<sup>2</sup>/L in cross hatch pattern to achieve a minimum dry film thickness of 150 microns (0.15mm).

Primer must be pinhole free prior to application of Metz 27M Membrane.

##### (iii) Metz 27M Membrane

Allow primer to dry for a minimum of 16 hours at 25°C.

Apply mixed material to dried primer with brush or roller at a spread rate of 1.2m<sup>2</sup> per L, or a 700 micron Wet Film Thickness.

Allow 4 to 8 hours to dry then apply a second coat at same rate.

Average Dry Film Thickness should be 1.2mm with a minimum of 1.0mm Dry Film Thickness at any point.

#### 5. Setting/Curing

Setting Time: 24 hours at 25°C

Full cure 7 days at 25°C

Allow final coat to cure for at least 24 hours before tiling. Allow longer in cool conditions. In swimming pool applications allow to cure for a minimum of 7 days before tiling.

#### 6. Storage

Store in sealed containers in a cool, dry environment. Under these conditions, minimum shelf life is 12 months.

#### 7. Safety Precautions

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

Ensure adequate ventilation.

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

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

- 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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