

METZ 22

POLYURETHANE MEMBRANE



DESCRIPTION:

METZ 22 is a one-part, flexible polyurethane waterproof membrane, used as an underlay beneath Metz ceramic tiling systems.

FEATURES AND BENEFITS:

- Waterproof.
- Conforms to AS 4858 Wet area membranes.
- Compatible with Metz tile adhesive systems.
- One-part, easy to use.
- Flexible - 450% elongation.
- Crack bridging - will accommodate cracks in concrete up to 1.5mm.
- Excellent adhesion to dry concrete and metal.
- Liquid applied, eliminating joints and providing a continuous membrane.

RECOMMENDED:

As a waterproof underlay for ceramic tiling systems in:

- Food and Beverage Industry
- Dairy Product Processing
- Commercial Kitchens
- Pharmaceutical Manufacture
- Fast Food Restaurants

Consult Metz for compatible tile adhesives.

NOT RECOMMENDED:

- When not covered by an appropriate Metz tiling system.
- On wet or contaminated surfaces.
- For Swimming Pools refer Metz 20M.

PHYSICAL PROPERTIES:

Solids content:	83%
Density g/cm ³ :	1.32
Hardness Shore A: ASTM D2240	37
Elongation ASTM D412:	450%
Tensile Strength:	2.2 MPa

COVERAGE:

Theoretical quantities (allow for wastage).

Metz 22 - 12.6 sq.metres per 18.9 lt pail at a wet film thickness of 1.5mm.

Metz Epoxy Primer - 0.2 - 0.3kg per sq. metre at 0.2mm thickness

APPLICATION TEMPERATURE:

The recommended temperature range for application is 5°C to 35°C, with a relative humidity below 90%.

At temperatures below 5°C, curing may be inhibited and final technical properties may be altered. At temperatures above 35°C, pot life and open time will be affected.

The material temperature should be below 30°C.

Substrate temperature should be at least 3°C above the dew point.



CHEMICAL & CORROSION RESISTANT
MATERIALS OF CONSTRUCTION



METZ 22

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INSTRUCTIONS FOR USE

1. Temperature of Working Area

Maintain a temperature of between 5 and 35°C on substrate and air during mixing, application and cure. At temperatures below 5°C, METZ 22 may not cure fully. At temperatures above 35°C, working time will be greatly reduced. The material temperature should be below 30°C. Application in direct sunlight and rising surface temperatures may result in blistering of the coating due to expansion of trapped air or moisture in the substrate.

2. Surface Preparation

All surfaces must be clean and dry. Remove all oil, grease, and other contaminants that may inhibit bond. Repair any rough surfaces with Metz 25 multi-purpose cement. Concrete on grade should utilise a waterproof barrier beneath the slab. Metz Epoxy Primer is recommended for use on all large areas. For small areas that need to be waterproofed, such as on walls adjoining sinks and basins, Metz 22 can be applied directly to the substrate, provided it is clean and dry.

(i) New Concrete

Surface must be free from laitance, form oils and curing compounds. Surface should have a fine wood float finish and be 28 days old. Any laitance should be removed by grinding or light abrasive blasting.

(ii) 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.

(iii) Metals

All surfaces must be clean and dry. Remove oil, paint, corrosion and scale. Abrasive blast to AS 1627.4 Class 21/2 minimum.

Detail work:

At all horizontal and vertical junctions, neatly lay a 12mm fillet of one part polyurethane sealant into the corner. Remove any excess sealant from wall and floor areas. Allow sealant to cure before applying Metz 22.

3. Mixing

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

METZ Epoxy Primer	By Weight	By Volume
Liquid	1.85	1.6
Hardener	1	1

METZ 22

Remix Metz 22 membrane prior to use.

c) Mixing Procedure

METZ Epoxy Primer:

Mix liquid and hardener together thoroughly for 1-2 min.

d) Clean Up

Mixing equipment, brushes, rollers etc can be cleaned with Metz Cleaner, xylene, acetone, or MEK prior to initial set.

4. Installation

(i) METZ Epoxy Primer

Apply to surface using squeegee, then back-roll with short nap roller. Metz 22 can be applied after primer has become tacky.

Primer can be left for up to 24 hours before applying Metz 22.

(ii) METZ 22

Apply material to prepared substrate by notched squeegee, brush or roller. Apply at the rate of 1.5 lts/sq. metre to achieve a wet film thickness of 1.5mm.

Back-roll with a short nap solvent resistant roller.

If applying Metz 22 by roller, two coats may be required to achieve the desired thickness. Allow first coat to dry before applying second coat.

5. Drying/Curing:

At 25°C, 50% relative humidity:

Tack free: 24 hours

Rubbery cure: 48 hours

Protect membrane from damage prior to and during tile installation.

6. Storage

Store in original unopened containers in a cool, dry environment. Under these conditions, minimum shelf life is 6 months.

7. Safety Precautions

Metz Epoxy Primer Liquid and Hardener

Avoid contact with skin and eyes.

Use chemical goggles, gloves and barrier cream.

Ensure adequate ventilation.

Metz 22

Contains solvents. Ensure adequate ventilation.

Flammable. Avoid formation of flames or sparks.

Use chemical goggles, gloves and barrier cream.

For full safety precautions, refer to the Material Safety Data

- 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:
 - Metz shall not be liable for any loss of damage including consequential loss or damage or loss of profits arising thereby;
 - 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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