

METZ 22

POLYURETHANE MEMBRANE



DESCRIPTION:

Metz 22 is a one-part water-based, fibre reinforced flexible polyurethane waterproof membrane typically used beneath Metz ceramic tiling systems.

FEATURES AND BENEFITS:

- Waterproof.
- Conforms to AS 4858 Wet area membranes, Class III.
- Compatible with Metz tile adhesive systems.
- One-part, easy to use.
- Flexible - 350% 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.
- Water-based. Safe to use.
- **Quality Accreditation**
The management system governing the development and manufacture of this product is proudly ISO9001:2008 certified.

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 contaminated surfaces.

PHYSICAL PROPERTIES: Complies with AS4858 Class III

Solids content:	70%
Density g/cm ³ :	1.25
Elongation ASTM D412:	350%
Tensile Strength:	5 MPa
Recoat Time:	4-6 hours at 25°C
Colour:	Grey

COVERAGE:

Theoretical quantities (allow for wastage).

Metz 22 - 1.5sq. metres per litre for 1mm dry film thickness.

Metz 22 Primer - 5-10 sq. metres per litre, depending on porosity of surface.

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 a least 3°C above the dew point.



Your Acid Proofing & Industrial Flooring Specialist

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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.

(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 2 1/2 minimum.

Detail work:

At all horizontal and vertical junctions, neatly lay a 5mm 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) **Metz 22 Primer**

Mix 4 parts clean water: 1 part Metz 22 Primer by volume.

b) **Metz 22**

Remix Metz 22 membrane prior to use.

c) *Clean Up*

Mixing equipment, brushes, rollers etc can be cleaned with water prior to initial set of materials.

4. Installation

(i) **Metz 22 Primer**

Apply to surface with broom, brush or roller. Allow to dry for 30 minutes.

(ii) **Metz 22**

Apply material to prepared substrate by brush or roller. Apply at the rate of 1.5 lts/sq. metre to achieve a wet film thickness of 1.5mm, dry film thickness of 1.0mm.

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. (4-6 hours at 25°C)

5. Drying/Curing:

At 25°C, 50% relative humidity:

Tack free: 12-16 hours

Full cure: 3 days at 25°C.

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 12 months.

7. Safety Precautions

Avoid contact with skin and eyes.

Use chemical goggles, gloves and barrier cream.

Ensure adequate ventilation.

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

Always ensure you have the latest data sheet version, refer 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:
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