

METZ 6M

CHEMICAL RESISTANT GROUT



DESCRIPTION:

METZ 6M is a three-part, solventless, epoxy resin-based mortar specifically formulated for grouting ceramic floor tiles. It will adhere to damp surfaces and cure at low temperatures.

FEATURES AND BENEFITS:

- **Chemical Resistant**
Resistant to dilute organic acids, such as lactic, acetic and citric, and to most floor cleaning compounds. Refer METZ Chemical Resistance Chart.
- **Strong Bond**
Excellent adhesion to a wide variety of substrates.
- **Hygienic**
Dense, impermeable surface, easily cleaned to prevent bacterial growth.
- **Bonds to Damp Surfaces**
Ideal repair material for existing floors.
- **Cures Under Adverse Conditions**
Fully cures at temperatures as low as 5°C and relative humidity up to 100%.

RECOMMENDED:

- Commercial and Industrial Kitchens
- Food Processing Plants
- Beverage Manufacture
- Dairies and Milk Products Processing
- Restaurant, Hotel and Fast Food Kitchens
- Chemical Industry

PHYSICAL PROPERTIES:	(Typical Values)
Density:	1.75 - 1.85 g/cm ³
Compressive Strength:	70 MPa
Tensile Strength:	20 MPa
Adhesion to Unglazed Ceramic	4.2 MPa

COLOURS:

Standard Colours: Black and Neutral
Other Colours: Manufactured to fulfill special orders.

COVERAGE:

 Theoretical quantities (allow for wastage)

- For 240mm x 115mm tiles - 6mm wide x 20mm deep joints 2.8kgs/square metre
- For 150mm x 150mm tiles - 6mm wide x 12mm deep joints 1.7kg/square metre

APPLICATION TEMPERATURE:

The recommended temperature range for application of METZ 6M is 5°C to 35°C.
At temperatures below 5°C, curing may be inhibited and final technical properties may be affected.
At temperatures above 30°C, consistency and setting rates may be affected.
If necessary, consult METZ.



Acid Proofing & Industrial Flooring • Specialty Ceramic Tiles



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INSTRUCTIONS FOR USE

1. Temperature of Working Area

Maintain a temperature of between 5°C and 30°C on the METZ 6M components, brick or tile and substrate during mixing and application. Air temperature in the area where the METZ 6M is to be applied should also be between 5°C and 30°C. At temperatures below 5°C, METZ 6M will not cure properly. Consult METZ Pty Ltd if temperature cannot be maintained above 5°C.

At temperatures above 30°C initial set will take place too rapidly. This difficulty can be overcome by mixing in a cooler area, or by cooling the mixing equipment with ice water, and by cooling the METZ 6M components.

2. Surface Preparation

All surfaces to be jointed must be clean. Excess moisture should be removed. When rejointing a floor where previous jointing material has failed, the old material must be cleaned out thoroughly to a depth equal to at least twice the width of the joint. Joints should then be scrubbed with a strong detergent and water, and thoroughly rinsed. Excess water should then be removed with a wet vacuum.

3. Mixing

a) Equipment

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

b) Mixing Proportions

	By Weight	By Volume
Liquid	5	3
Hardener	3	2
Powder *	30	14

* For grouting tiles use P1 Powder, for bedding tiles use P2 Powder.

c) Mixing Procedure

Thoroughly mix liquid and hardener together first, in correct proportions. Add powder gradually with constant stirring.

Note: Liquid to hardener ratio must not be altered under any circumstances. Powder proportion may be altered $\pm 10\%$ to suit requirements.

d) Pot Life

Approximately 20 minutes at 25°C.

e) Clean Up

Mixing equipment, tools, etc., can be cleaned with Metz cleaner, xylene, acetone or M.E.K. prior to initial set of cement.

4. Installation

Joint Width: 6mm nominal to enable joints to be completely filled. To facilitate cleaning of tiles, we recommend that they should first be coated with Metz Masking Compound. This compound is applied sparingly with a lambswool roller. At least two coats are recommended, with great care being taken to ensure that it does not run down the sides of the joints. Metz Masking Compound should be allowed to dry (approx. 1 hour under normal conditions), before the second coat is applied. If tile surfaces are very rough, it is recommended that they be waxed before laying.

Apply mixed grout to joints by trowel or compressed air operated jointing gun (operating at 100 psi pressure). Ensure joints are flush with tile surface. Remove as much of the excess cement as possible from the tile surface prior to the initial set of the cement. A clean rag dampened with Metz Cleaner will aid this removal.

After joints have set (usually the next day), Metz Masking Compound can be removed with water and a scrubbing machine.

Setting Time:

6 hours at 25°C, approx.
Full cure 3 days at 20°C

5. Storage

Store in original, sealed container in a cool dry place. Under these conditions minimum shelf life is 12 months.

6. Safety Precautions

a) Liquid and Hardener:

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

b) Powder:

Avoid breathing dust.
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.

Always ensure you have the latest data sheet version, refer 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:
 - Metz shall not be liable for any loss or 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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