

METZ 17M

WATER WASHABLE EPOXY ADHESIVE FOR MOSAIC TILES



DESCRIPTION:

Metz 17M is a water washable, three-part epoxy resin for adhesive fixing mosaic tiles. Metz 17M combines excellent adhesion and good chemical resistance with ease of application.

FEATURES AND BENEFITS:

- Chemically Resistant
Resists dilute acids and alkalis, as well as salts, oils and fats.
- High Long Term Bond Strength
Excellent adhesion to membrane, render and concrete surfaces. Unaffected by long term immersion in swimming pool water.
- Hygienic
Dense impermeable surface, easily cleaned to reduce bacteria growth.
- Easy to Use
Excess epoxy is easily cleaned from tiles and equipment by warm water, rather than solvents. Long pot life.
- Safe Use
Lower potential for allergic reaction as commonly associated with other epoxies. No solvents required for clean up.
- Quality Accreditation
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

RECOMMENDED:

For laying tiles in swimming pools especially mosaic tiles.

NOT RECOMMENDED:

- For application at temperatures less than 10°C
- For service temperatures over 60°C refer

PHYSICAL PROPERTIES:

	(Typical Values)
Density:	1.85 - 1.95 g/cm ³
Adhesion to Ceramic:	Greater than 2MPa *
Adhesion to Concrete:	Concrete failure

* Note: As there are so many types of mosaic tiles and mesh supporting systems which impact possible adhesive coverage it is advisable to trial prior to use.

COLOURS:

Standard colours	Mid Grey, Black, White to complement Metz 11E epoxy grout
Other colours	Manufactured to order.

COVERAGE: Theoretical quantities (allow for wastage)

1.9 kgs/square metre per mm

APPLICATION TEMPERATURE:

The recommended temperature range for application of Metz 17M is 10°C to 35°C.
At temperatures below 10°C, curing will 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.

INSTRUCTIONS FOR USE

1. Temperature of Working Area

Maintain a temperature of between 10°C and 35°C on the Metz 17M components, brick or tile and substrate during mixing and application. Air temperature in the area where Metz 17M is to be applied should also be between 10°C and 35°C.

2. Surface Preparation

All surfaces must be clean, dry and free from oil, grease, water and other contaminants which may inhibit bond.

New Concrete: New concrete should have attained a compressive strength of 20 MPa minimum and be at least 28 days old. Surface must be free from laitance, form oils and curing compounds. Concrete must be true to plane and have all falls incorporated. Any deviations in level cannot be adjusted by the bedding. Surface must be free from any holes or protuberances.

Old Concrete: Concrete must be sound. All structural cracks should be repaired and all falls re-established with approved repair material. Finished surface must be true to plane and free from any holes or protuberances.

3. Mixing

Mix liquid component with a slow speed drill for a minimum of 30 seconds and at least until all material is of consistent appearance.

a) Equipment - Mechanical mixing is recommended. A lowspeed dough 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
L1 Liquid (Neutral)	2 parts	3.5
17 Hardener	1 part	2.0
P11 Powder	6 parts	7.5

For wall applications add Metz PT1 thixotrope powder as required. Usage will depend upon substrate and material temperature. Use up to 5% by weight of the L1 Liquid component. Add to L1, mix prior to addition of hardener.

Use P11 Powder colour to match selected Metz 11E grout finish (white/grey).

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. Vertical installation may utilise more powder. Addition of excess powder can reduce the adhesion strength and workability.

d) Pot Life - Approximately 45min at 20°C. Pot life decreases with increase in temperature, and increases with decrease in temperature. Leaving the material in a large mass can generate heat and reduce pot life

e) Clean Up - Mixing equipment and tools can be cleaned with water prior to initial set of the epoxy.

4. Installation

For mosaic tile installation it is recommended to use 4 or 6mm notch trowel. Apply the mix uniformly on substrate. Press the tiles firmly but carefully not to allow too much adhesive get between the joints as it may interfere with grouting process. Wipe excess adhesive from tile surface by using clean warm water.

Setting Time overnight at 20°C

Full Cure 7 days at 20°C

Note: Minimum curing temperature is 10°C.

5. Storage

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

6. Standard Pack Sizes

L1 Liquid	20kg
17 Hardener	10kg
P11 Powder	20kg bag

7. 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.

For full safety precautions refer to the 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.