

# METZ 17

## EPOXY TILE ADHESIVE



### DESCRIPTION:

Metz 17 is an epoxy adhesive used for bonding ceramic tiles in swimming pools, kitchens, bathrooms and food plants. It can also be used as a bedding cement for vibration fixed ceramic tiles.

### FEATURES AND BENEFITS:

- High Bond Strength  
Excellent adhesion to concrete and ceramic tile
- Chemical Resistant  
Resist dilute acids and alkalis as well as most salts, oils and fats
- Water Washable  
Excess material can easily be cleaned from tiles and equipment by water rather than solvents
- Solventless  
100% solids formulations
- Impervious  
Will not absorb water, oils, fats or other liquids
- Safe Use  
Low potential for allergic reactions commonly associated with epoxies
- Quality Accreditation  
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

### RECOMMENDED:

For bonding ceramic tiles to concrete, sand/cement screed, render etc in the following areas:

- Swimming pools
- Food processing
- Breweries
- Soft drink and fruit juice manufacturing
- Commercial kitchens
- Dairy product processing
- Bathrooms

### NOT RECOMMENDED:

- For exposure to strong organic acids, oxidizing acids or solvents. Refer Metz 12P or Metz 6NF.
- For application at low temperatures (below 10°C). Refer Metz 5NFA.
- For fixing to flexible substrates eg 6mm Fibre Cement Sheet

### PHYSICAL PROPERTIES:

(Typical Values)

Density g/cm <sup>3</sup>	1.7 - 1.80 for standard adhesive fixing application 1.4 - 1.5 for vibration fixed application
Adhesion to concrete MPa	Concrete failure
Adhesion to ceramic, MPa	2.8

### COVERAGE:

Theoretical quantity (allow for wastage)

1.8kg/sq.m of thickness for standard adhesive fixing application

3kg/sq.m at 2mm thickness for vibration fixed application



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### INSTRUCTIONS FOR USE

#### 1. Temperature of Working Area

For optimum results, maintain a temperature of 10-35°C on air, substrate and components during mixing, application and curing. At temperatures below 10°C, the application becomes more difficult and curing is retarded. At temperatures above 35°C, initial set will take place too rapidly. This difficulty can be overcome by mixing in a cooler area or by cooling the components.

#### 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) Mixing Equipment:

Mechanical mixing is recommended. A low speed mixer or a heavy duty drill with an appropriate mixing paddle are suitable. Small quantities can be mixed by hand, using a trowel.

##### b) Mixing Proportions for standard adhesive fixing application:

	By Weight	By Volume
L1 Liquid	2	1.7
17 Hardener	1	1.0
Powder P2	9-10	5.40 - 5.90

##### c) Mixing Proportions for vibration fixing applications:

	By Weight	By Volume
L1 Liquid	2	6 ltrs
17 Hardener	1	3.5 ltrs
P6 Powder	6	1 x 20 kg bag

Note: The liquid to hardener ratio must not be altered under any circumstances.

The powder proportion may be adjusted +/- 10% to suit conditions.

##### d) Mixing Procedure:

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

e) Pot Life at 20°C: Approximately 45 minutes. Material should not be left in bulk after mixing as this will cause heat build-up and reduce pot life.

f) Clean Up: Mixing equipment, tools, etc. can be cleaned with water prior to the initial set of the cement.

#### 4. Installation

##### a) For standard adhesive fixing application

Apply mixed material to substrate using a notched trowel. Move tiles perpendicular to notches aiming for 100% tile coverage. Lift tiles regularly to check this is being achieved.

##### b) For vibration fixing application

Apply mixed Metz 17 bedding to substrate using a notched trowel. Apply tiles to bedding and use vibration equipment to level tiles. Ensure tiles are fully bedded and that no voids exist. Ensure that bedding cement does not rise up joint more than 50% of joint depth.

Spread only sufficient Metz 17 that can be covered within 20 minutes at 20°C.

#### 5. Setting/Curing

Setting time: Overnight at 20°C.

Full cure: 7 days at 20°C.

Do not allow water or traffic on joint surface for a minimum of 24 hours at 20°C.

#### 6. Storage

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

#### 7. Safety Precautions

a) Liquid and Hardener: Avoid contact with skin and eyes. Avoid breathing vapour. Use eye protection, barrier cream and wear protective gloves. If contamination occurs, wash affected areas with soap and water (never use solvents for this purpose).

b) Powder: Avoid breathing dust. Allow adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapour.

For fully 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](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:
  - 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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