

# METZ 19

## WATER WASHABLE EPOXY



### DESCRIPTION:

Metz 19 is a water washable, three-part epoxy resin for bedding and jointing ceramic tiles. Metz 19 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. Has better chemical resistance than many other water washable epoxy grouts. Refer to Metz Chemical Resistance chart.
- High Bond Strength  
Excellent adhesion to tile and concrete surfaces.
- Hygienic  
Dense impermeable surface, easily cleaned to reduce bacteria growth.
- Easy to Use  
Excess grout is easily cleaned from tiles and equipment by water, rather than solvents. Long pot life.
- Safe Use  
Low 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 ISO9001:2008 certified.

### RECOMMENDED:

For floor and wall tiling in the following areas:

- Food Processing
- Beverage Manufacture
- Dairy Product Processing
- Swimming Pools
- Commercial Kitchens
- Fast Food Restaurants
- Hospitals and Institutions
- Pharmaceutical Manufacture

### NOT RECOMMENDED:

- For application at low temperatures or to damp surfaces. Refer Metz 5NF or Metz 6M.
- For light colours exposed to UV light where colour stability is critical. Refer Metz 19C.
- For exposure to strong organic acids, oxidizing acids and solvents. Refer Metz 12P or Metz 6NF.

### PHYSICAL PROPERTIES:

(Typical Values)

Density:	1.70 - 1.80 g/cm <sup>3</sup>
Compressive Strength:	78 MPa
Tensile Strength:	28 MPa
Coefficient of Thermal Expansion:	45 x 10 <sup>-6</sup> per °C

### COLOURS:

Standard colours	Black, Light Grey, Dark Grey and Red
Other colours	Manufactured to order.

### COVERAGE:

 Theoretical quantities (allow for wastage)

For Jointing 240 x 115mm tiles - 6mm x 20mm joints	2.7 kgs/square metre
For Jointing 150 x 150mm tiles - 6mm x 12mm joints	1.7 kgs/square metre
For Bedding tiles	1.8kgs/square metre/mm of thickness

### APPLICATION TEMPERATURE:

The recommended temperature range for application of Metz 19 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.



**Your Acid Proofing & Industrial Flooring Specialist**

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### INSTRUCTIONS FOR USE

#### 1. Temperature of Working Area

Maintain a temperature of between 10°C and 35°C on the Metz 19 components, brick or tile and substrate during mixing and application. Air temperature in the area where Metz 19 is to be applied should also be between 10°C and 35°C.

#### 2. Surface Preparation

- a) Jointing - all surfaces to be clean and dry
- b) Bedding
  - i) Concrete - Concrete should be min 28 days old and free from laitance, form oils and other contaminants.
  - ii) Tiles & Bricks - Tiles and bricks must be sound. Loose tiles or bricks must be removed and replaced with new tiles or bricks or Metz 25, or approved repair material.  
Tile and brick surfaces must be free of all contaminants such as oil, grease and fat. Remove contaminants by scrubbing with a strong detergent and water, followed by thorough rinsing. Mechanical abrasion is then necessary to ensure adhesion.

Consult Metz is further details are required.

#### 3. Mixing

- 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 (for all colours)

	By Weight	By Volume
Liquid L1	2.6 parts	2.0 parts
Hardener	1.0 part	1.0 part
Powder*	13.0 parts	8.0 parts

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

Colour is added to the liquid component. For grout, other than Ivory, colour is added to the liquid. For Ivory coloured grout use P1-Ivory.

- 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. Addition of excess powder can result in a porous joint.

- d) Pot Life - Approximately 2 hours at 25°C. Pot life decreases with increase in temperature, and increases with decrease in temperature.
- e) Clean Up - Mixing equipment and tools can be cleaned with water prior to initial set of the grout.

#### 4. Installation

- a) Jointing - Ensure joints and tile edges are clean. Joint width should be 6mm nominal to enable joints to be completely filled. Joint depth should be equal to at least twice joint width. Apply mixed grout to joints by trowel or compressed air operated jointing gun (100 psi pressure). Ensure complete filling of the joints. Remove excess grout from tile surfaces with sponge or clean, absorbent material dampened with minimum amount of clean water before grout begins to set (usually within 45 minutes of applying).

NOTE: Use of excess water when cleaning off will result in decreased hardness and chemical resistance of the joint surface. Surface may also discolour.

- b) Bedding - Apply freshly mixed Metz 19 to substrate with suitable notched trowel and immediately set tiles in the bed. When fixing tiles with deeply keyed backs, prefill the keys with Metz 19.

Do not spread more Metz 19 than can be covered in 20 minutes at 20°C. Do not place tiles on Metz 19 which has reached the end of its pot life.

#### 5. Storage

	Setting Time	Full Cure
at 25°C	Overnight	7 Days

Note: Minimum curing temperature is 10°C.

#### 6. Storage

Store in original, sealed container 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. 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 Material 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)

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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  - b) 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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