

# METZ 19

## WATER WASHABLE EPOXY GROUT



### DESCRIPTION:

METZ 19 is a water washable, three-part epoxy resin for 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 most other water washable epoxy grouts. Refer to METZ Chemical Resistance chart.
- **High Bond Strength**  
Excellent adhesion to tile surfaces.
- **Hygienic**  
Dense impermeable surface, easily cleaned to reduce bacteria growth.
- **Water Washable**  
Excess grout is easily cleaned from tiles and equipment by water, rather than solvents.
- **Safe Use**  
Low potential for allergic reaction as commonly associated with other epoxies. No solvents required for clean up.

### RECOMMENDED:

For floor and wall tiling in the following areas:

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

### NOT RECOMMENDED:

- For application at low temperatures. Refer METZ 5NF and METZ 6M.
- For bonding to damp surfaces. Refer METZ 5NF and METZ 6M.
- For exposure to strong organic acids, oxidizing acids and solvents. Refer METZ 12P, 5NF and METZ SAUEREISEN 65.

### 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

<b>COLOURS:</b>	Standard colours	Black, Grey and Neutral
	Other colours	Manufactured to order.

**Note:** METZ 19 Neutral may show shade variations when cured.

### COVERAGE:

Theoretical quantities (allow for wastage)	
240 x 115mm tiles - 6mm x 20mm joints	2.7 kgs/square metre
150 x 150mm tiles - 6mm x 12mm joints	1.7 kgs/square metre

### APPLICATION TEMPERATURE:

The recommended temperature range for application of METZ 19 is 10°C to 35°C.  
At temperatures below 10°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 • SPECIALTY TILE SYSTEMS  
• INDUSTRIAL FLOORING



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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. At temperatures below 10°C, METZ 19 will not cure properly. Consult METZ Pty Ltd if temperature cannot be maintained above 10°C.

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 METZ 19 components.

#### 2. Surface Preparation

All surfaces to be jointed must be clean and dry.

#### 3. Mixing

##### a) Equipment

Mechanical mixing is recommended. A low speed 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.

##### 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

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.

##### After Treatment

Particularly on dark coloured tiles, there is a possibility of film formation caused by the residue left after cleaning. This residue can be cleaned from the tiles after 24 hours, with warm water and a scrubber. In certain cases, a 5% acetic acid solution may be used instead of water.

##### a) Setting Time:

Overnight at 25°C.

##### b) Curing Time

7 days at 25°C

**Note:** Minimum curing temperature is 10°C.

#### 5. Coverage Theoretical quantities (allow for wastage)

For 240 x 115mm tiles, 6 x 20mm joints	2.7 kgs/square metre
For 150 x 150mm tiles, 6 x 12mm joints	1.7 kgs/square metre

#### 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.

- 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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