

METZ 19 IVORY

EPOXY WALL TILE GROUT



DESCRIPTION:

METZ 19 Ivory is a water washable, 3-part epoxy resin, specifically formulated for jointing ceramic wall tiles.

FEATURES AND BENEFITS:

- **Chemical 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 bacterial 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.
- **Thixotropic**
Does not slump in vertical joints. Note - additional thixotropic additive available for wide joints.

RECOMMENDED:

For jointing ceramic tiles 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.
- For bonding to damp surfaces. Refer METZ 5NF and METZ 6M.

PHYSICAL PROPERTIES:

(Typical Values)

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

COVERAGE:

Theoretical quantities (allow for wastage)

150 x 150mm wall tiles	3 mm width joints	0.45 kg per sq.m.
240 x 115mm tiles	10mm x 8mm joints	1.8 kgs per sq.m.

APPLICATION TEMPERATURE:

The recommended temperature range for application 10°C to 30°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.



CHEMICAL & CORROSION RESISTANT
MATERIALS OF CONSTRUCTION



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INSTRUCTIONS FOR USE

1. Temperature of Working Area

Maintain a temperature of between 10°C and 30°C on the METZ components, tiles and substrate during mixing and application. Air temperature in the area where METZ material is to be applied should also be between 10°C and 30°C. At temperatures below 10°C, the material will not cure properly. Consult METZ if temperature cannot be maintained above 10°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 19 Ivory 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

	By Weight	By Volume
Liquid L1	2.6 parts	2 parts
Hardener	1 part	1 part
Powder	11 parts	7 parts

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 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 joint surfaces are clean and dry.

Apply mixed cement by squeegee, or similar.

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.

5. 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 scrubbing. 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.

6. Coverage Theoretical quantities (allow for wastage)

240 x 115mm tiles	
10mm x 8mm joints	1.8 kgs per sq.m.
150 x 150mm tiles	
3 mm joint widths	0.45 kgs per sq.m.

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.

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