



METZ 6B

EPOXY BEDDING CEMENT



DESCRIPTION:

METZ 6B is an epoxy resin based cement used for bonding ceramic tiles to concrete, sand/cement screeds or other ceramic tiles. It is fast setting, has good chemical resistance and will cure under adverse conditions.

FEATURES AND BENEFITS:

- **Excellent Adhesion**
Bonds to a wide variety of substrates, even when surfaces are damp.
- **High Chemical Resistance**
Resistant to a wide range of acids, alkalis, salts, fats and greases. Refer to METZ Chemical Resistance Chart under 6M.
- **Fast Set**
Fast initial set minimises downtime.
- **Cures Under Adverse Conditions**
Fully cures at temperatures as low as 5°C and relative humidity up to 100%.

RECOMMENDED:

For bonding ceramic tiles to concrete, sand/cement screeds or other ceramic tiles in

- Commercial and industrial kitchens
- Food processing plants
- Beverage manufacture plants
- Dairies and milk products processing
- Restaurant, Hotel and Fast Food kitchens
- Chemical Industry

PHYSICAL PROPERTIES:

(Typical Values)

Density:	1.70 - 1.80 g/cm ³
Compressive Strength:	70 MPa
Tensile Strength:	20 MPa
Adhesion to Unglazed Ceramic	4.2 MPa

COVERAGE:

Theoretical quantities (allow for wastage)

Allow 1.75 kg/m² per mm of thickness.

If tile back is profiled, allow extra material for filling back.

APPLICATION TEMPERATURE:

The recommended temperature range for application is 5°C to 30°C.

At temperatures below 5°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.



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INSTRUCTIONS FOR USE

1. Temperature of Working Area

Maintain a temperature of between 5°C and 30°C on the METZ 6B components, brick or tile and substrate during mixing and application. Air temperature in the area where the METZ 6B is to be applied should also be between 5°C and 30°C. At temperatures below 5°C, the material will not cure properly. Consult METZ if temperature cannot be maintained above 5°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 6B components.

2. Surface Preparation

i) New Concrete

New concrete should be at least 28 days old.
Surface must be free from laitance, form oils and curing compounds.

ii) Old Concrete

Surface must be sound, and free from laitance, oil, grease and other contaminants.

Note: Preferred methods of concrete preparation are abrasive blasting and/or scabbling.

iii) Tiles and 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 if further details are required.

3. Mixing

a) Equipment

Mechanical mixing is recommended. A low speed resinous cements 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.

<i>b) Mixing Proportions</i>	By Weight	By Volume
Liquid	1.75	3.5 litres
Hardener	1.0	2.15 litres
Powder	8.75	1 x 20kg bag

Under no circumstances should the liquid to hardener ratio be altered. The powder proportion may be altered $\pm 10\%$ to suit.

c) Mixing Procedure

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

d) Pot Life 20 minutes at 25°C, approx.

Increase in temperature will decrease pot life, as will leaving material in a large mass. Spread out material in a thin layer.

e) Clean Up

Mixing equipment, tools, etc., can be cleaned with METZ Cleaner prior to initial set of cement.

4. Installation

Apply freshly mixed METZ 6B 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 6B.

Do not spread more METZ 6B than can be covered in 20 minutes at 20°C. Do not place tiles on METZ 6B which has reached the end of its pot life.

5. Setting and Curing

Initial set at 20°C	2 to 3 hours
Full cure at 20°C	2 to 3 days

6. Safety Precautions

a) Liquid and Hardener:

Use chemical goggles, PVC gloves and barrier cream. Avoid contact with skin and eyes.

b) Powder:

Avoid breathing dust.
Ensure adequate ventilation.

c) Cleaner:

Inflammable.
No smoking.
Avoid formation of sparks.
Ensure adequate ventilation.

For full safety precautions refer to the Material Safety Data Sheet for each component.

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