



# METZ 5NFA

## FAST SETTING EPOXY



### DESCRIPTION:

METZ 5NFA is a 100% solids, fast setting epoxy resin compound, which can be used as a jointing, coating and repair material.

### FEATURES AND BENEFITS:

- **Rapid Cure**  
Fast setting, minimises downtime.
- **Good Chemical Resistance**  
Resistant to a wide range of acids, alkalis, salts, oils and fats.
- **Solventless**  
100% solids formulation.

### RECOMMENDED:

As a jointing cement for ceramic tile installations and as a repair mortar in:

- Restaurant, Hotel and Fast Food kitchens.
- Commercial and Industrial kitchens.
- Food Processing plants.
- Beverage Manufacture.
- Dairies and Milk Products processing.

### NOT RECOMMENDED:

- For exposure to concentrated acids and solvents. Refer Metz 5NF, 12P and Sauereisen 65.

### PHYSICAL PROPERTIES:

	(Typical Values)
Density, g/cm <sup>3</sup> :	1.75 - 1.85
Compressive Strength, MPa:	110
Adhesion to Unglazed Ceramic, MPa:	4.2
Tensile Strength, MPa:	11

### COVERAGE: Theoretical quantities (allow for wastage)

For jointing 240 x 115mm tiles - joints 6mm wide x 20mm deep	2.8 kg/square metre
For jointing 150 x 150mm tiles - joints 6mm wide x 12mm deep	1.7 kg/square metre

### APPLICATION TEMPERATURE:

For optimum results, maintain a temperature of 5 - 30°C on air, substrate and components during mixing, application and curing.

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

For optimum results, maintain a temperature of 5 - 30°C on air, substrate and components during mixing, application and curing.

At temperatures below 5°C, the application becomes more difficult and curing is retarded.

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 components.

#### 2. Surface Preparation

All surfaces must be clean, dry and free from oil, grease, water and other contaminants which may inhibit bond.

#### 3. Mixing

##### 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 may be mixed by hand, using a trowel.

##### b) *Mixing Proportions*

	By Weight	By Volume
Liquid L1	2.7	2.3 parts
Hardener	1	1.0 parts
Powder	12	8.5 parts

**Note: Liquid to hardener ratio must not be altered under any circumstances.** The powder proportion may be altered  $\pm 10\%$  to suit requirements.

##### c) *Mixing Procedure*

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

##### d) *Pot Life at 20°C*

Approximately 15 minutes

##### e) *Clean Up*

Mixing equipment, tools, etc., can be cleaned with METZ Cleaner, xylene, acetone or M.E.K. prior to initial set of cement.

#### 4. Installation

Joint width: 6mm. nominal to enable joints to be completely filled.

##### (a) *Masking of Floor Tiles*

To facilitate cleaning of tiles we recommend that they should be first coated with METZ Masking Compound. This compound is applied sparingly with a lambswool roller. At least two coats are recommended, with great care being taken to ensure that it does not run down the sides of the joints.

METZ Masking Compound (refer separate Data Sheet) should be allowed to dry (approx. 1 hour under normal conditions), before the second coats applied. For porous tiles, three or more coats may have to be applied. If tile surfaces are very rough, it is recommended that they be waxed before laying.

##### (b) *Application*

Apply mixed grout to joints using trowel or compressed air operated jointing gun (operating at 100psi pressure). Ensure joints are flush with the tile surface.

Remove as much of the excess cement as possible from the tile surface prior to the initial set of the cement.

A clean rag dampened with METZ Cleaner will aid this removal.

After joints have set (usually the next day), Metz Masking Compound can be removed with water and a scrubbing machine.

##### (c) *Setting Time at 20°C*

2 hours

##### (d) *Full Cure at 20°C*

2 days

Do not allow water or chemicals on the material surface for a minimum of 6 hours at 20°C. For harsh chemical or physical environments, cure for a minimum of 48 hours prior to exposure.

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

Jointing 240 x 115mm tiles - 6mm wide x 20mm deep  
2.8 kg per sq. m.

Jointing 150 x 150mm tiles - 6mm wide x 12mm deep  
1.7 kg per sq. m.

#### 6. Safety Precautions

##### a) *Liquid and Hardener:*

Avoid contact with skin and eyes. Avoid breathing vapour.

Use barrier cream and wear protective gloves.

If contamination occurs, wash affected area with soap and water (never use METZ Cleaner for this purpose).

##### 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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