

METZ 25

TILE ADHESIVE & MULTI PURPOSE CEMENT



DESCRIPTION:

Metz 25 is a two part compound comprising a natural rubber latex liquid and aluminous cement based powder. It is commonly used as a high performance floor tile adhesive or joint filler.

FEATURES AND BENEFITS:

- Excellent Bond
Tenacious adhesion to concrete, steel, timber, ceramic, aluminium, glass and fused cast basalt and alumina tiles.
- Resilient
Able to absorb impact, vibration and normal substrate movement.
- Waterproof
Resistant to water and vapour transmission.
- Resistant to Dilute Acids and Alkalis
Superior chemical resistance compared to Portland Cement based adhesives and cements.
- Easy Applications
Fast setting and may be applied to damp surfaces.
- Safe to Use
Non flammable. Does not contain solvents. Non Hazardous.

RECOMMENDED:

Metz 25 has a wide range of applications for the following industries:

- Commercial Kitchens
- Coal Washeries
- Food and Beverage Plants
- Heavy Industry
- Power Stations
- Building & Construction

TYPICAL USES:

- As part of a Metz tiling system in food area floors.
- Bonding ceramic tiles to concrete, steel and other ceramic tiles.
- Bedding and jointing of fused cast basalt, alumina, glass and ceramic to concrete or steel in sluiceways, coal and ore bunkers, etc.
- A monolithic coating on concrete and steel.
- A jointing compound for construction joints in concrete and Korodur floors.
- A levelling compound on concrete.
- Patching concrete.

NOT RECOMMENDED:

- Bed thickness below 3mm.
- Continuous service above 65°C. Refer Metz for alternatives.
- Strong acid, alkali and solvent environments. Refer Metz Chemical Resistance Chart for suitable materials.

PHYSICAL PROPERTIES:

	(Typical Values)
Density:	1.95 - 2.05 g/cm ³
Temperature Limit (Continuous)	65°C
Bond Strength -	
to steel	3.5 MPa
to concrete	3.0 MPa
to brick	4.0 MPa

COVERAGE:

Theoretical quantities (allow for wastage)	
6mm x 12mm joint	0.15 kgs/lin.m.
5mm coating or bedding	10kg/sq.m.
(12 mm notched trowel)	

APPLICATION TEMPERATURE:

The recommended temperature range for application of Metz 25 is 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.



Acid Proofing & Industrial Flooring • Specialty Ceramic Tiles



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INSTRUCTIONS FOR USE

1. Surface Preparation

All surfaces must be clean. Concrete surfaces must be free from laitance, form oils and curing compounds. For best results, concrete should be mechanically prepared by scabbling or abrasive blasting. New concrete surfaces should be accurately graded to falls, have a fine textured finish, be at least 7 days old and have reached a compressive strength of at least 20MPa. Steel must be free from loose rust, oil, grease, etc. For best results, it should be abrasive blasted to AS1627:4 Class 2½ minimum.

Sealing

Porous surfaces should be sealed immediately prior to application with a mixture of:

- 1 part Metz 25 Liquid
- 1 part Metz 25 Powder
- 1 part cold, clean water

This mixture should be applied thinly by a stiff bristled brush.

Note: Metz 25 Powder must be used when sealing. Metz 25 Liquid used alone or with water will form a rubber skin which will inhibit bonding of subsequent coats.

2. 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.

b) Mixing Proportions *

	By Weight	By Volume
Liquid	1	1
Powder	6 to 7	3.3 to 4

Powder proportion can be adjusted to achieve desired consistency.

* Note: If using as a joint filler, mixing proportion will be approximately 5 to 1 by weight or 3 to 1 by volume.

c) Mixing Procedure

Place required amount of liquid in mixing container. Add powder gradually with constant stirring.

d) Pot Life

Approx. 15 minutes at 25°C.

e) Clean Up

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

3. Installation

a) Tile Bedding:

Apply by trowel. If screeding, lay only sufficient material for 10 minutes work, as the cement forms a rubber skin very quickly. Do not lay tiles on cement which has skinned over. Ensure the backs are filled, and tiles well beaten into bed to avoid formation of voids.

b) Coating:

Apply by steel trowel. Build up in thicknesses of up to 5mm. Allow each layer to set before applying next layer. Finishing, by means of steel float, must be effected almost as levelling proceeds. A skin of rubber forms on the surface and once this happens no further finishing is possible.

c) Joint Filling:

Apply by trowel or caulking gun. While the cement is still pliable, the surface should be ironed smooth and dense, using a clean steel trowel.

4. Setting Time

Approximately 4 hours at 25°C.

(Note: Metz 25 goes through a "crumbly" stage prior to final set. It must not be subjected to mechanical or chemical stresses during this time.)

Full Cure: 5 days at 25°C.

5. Coverage Theoretical quantities (allow for wastage)

3mm coating or bedding	6.0 kg/sq.m.
6mm x 12mm joint	0.15 kg/lin.m

6. Storage

Store liquid and powder in cool, dry place. Protect liquid from freezing. Under these conditions, minimum shelf life is 6 months.

7. Safety Precautions

a) Liquid and Hardener:

Wear PVC or rubber gloves.

b) Powder:

Avoid breathing dust.

Ensure adequate ventilation.

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

- 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.
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