

DESCRIPTION:

Metz 33 Grouts are 100% solids epoxy systems that are used for grouting machinery base plates, column bases, anchors etc. They can also be used as concrete repair materials.

Metz 33 Machinery Grout is available in two grades - pouring grade and packing grade.

FEATURES AND BENEFITS:

- **Excellent Adhesion**
Tenacious bond to concrete and metallic surfaces.
- **Solventless**
100% solids system.
- **Cures under Adverse Conditions**
Cures at temperatures down to 5°C and high relative humidity.
- **High Strength**
Superior performance to cement-based grouts.
- **Chemical Resistance**
Excellent resistance to a wide range of acids, alkalis, solvents, oils and fats. Refer Metz Chemical Resistance Chart under Metz 33.

RECOMMENDED:

For grouting machinery base plates, column bases, anchors etc.

Metz 33 Pouring Grout is a free-flowing, self levelling formulation containing fine fillers.

Metz 33 Packaging Grout is an aggregate filled formulation with a damp sand consistency.

NOT RECOMMENDED:

- Areas subject to significant spillages of strong solvents or concentrated organic or oxidising acids.
Consult Metz for recommendations.

PHYSICAL PROPERTIES: (Typical Values)

	<i>33 Pouring Grout</i>	<i>33 Packing Grout</i>
Density g/cm ³	1.9 - 2.0	2.0 - 2.2
Compressive Strength, MPa	100	100
Adhesion to concrete (ASTM C-478)	concrete failure	concrete failure
Flexural Strength, MPa	58	35
Coefficient of thermal expansion, per °C	35 x 10 ⁻⁶	74 x 10 ⁻⁶

COVERAGE: Theoretical quantities (allow for wastage)

Metz 33 Pouring Grout 1.95 kg per sq. metre per mm. of thickness.

Metz 33 Packaging Grout 2.10 kg per sq. metre per mm. of thickness.

APPLICATION TEMPERATURE:

For optimum results, maintain a temperature of 10-30°C on air and substrate and components during mixing, application and curing.



INSTRUCTIONS FOR USE

1. Temperature of Working Area

For optimum results, maintain a temperature of 10-30°C on air and substrate and components during application and curing.

At temperatures below 10°C, the application becomes more difficult and curing is retarded.

At temperatures above 30°C, the working time decreases. Application in direct sunlight and rising surface temperatures may result in blistering of the coating due to expansion of entrapped air or moisture in the substrate.

2. Surface Preparation

All surfaces must be clean and free from oil, grease, water and other contaminants which may inhibit bond. Remove all standing water. For best results, surfaces should be dry.

3. Mixing

i) *Mixing Equipment*

Mechanical mixing is recommended.

A special resinous cements mixer or mortar mixer is suitable. Smaller quantities can be mixed using a heavy duty drill with a suitable paddle. Consult Metz for details.

ii) *Mixing Proportions*

(a) Metz 33 Pouring Grout

	By Weight	By Volume
Liquid L1	2	5.10 litres
33 Hardener	1	2.72 litres
33-SL Powder	7	20kg (1 bag)

(b) Metz 33 Packing Grout

	By Weight	By Volume
Liquid L1	2	1.89 litres
33 Hardener	1	1 litre
P5 Powder	21	20 kg (1 bag)

Note: The liquid to hardener ratios must not be altered under any circumstances.

The powder proportion can be reduced by up to 5% to suit conditions.

iii) *Mixing Procedure*

Mix liquid and hardener together thoroughly for 1-2 minutes. Add powder gradually with constant stirring. Mix for 3 to 5 minutes.

At the end of the mixing period, all material should be wetted out and uniform in colour and consistency.

Material which has begun to set must be discarded. Do not add any solvent, additive or adulterant to any component, or to the mixed material.

iv) *Pot Life* at 20°C 30 minutes

Note: Increase in temperature will decrease pot life, as will leaving mixed material in a large mass. Spread out material in a thin layer as soon as possible after mixing.

v) *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

As Metz 33 Pouring Grout is self-levelling, it requires forms to be constructed. Forms are usually wood, of the same type as used for concrete. They must be watertight and braced to withstand the pressure from the grout.

Apply the grout by pouring. Ensure a continuous flow of material.

Metz Packing Grout has a damp sand consistency, and is installed by packing or ramming into place. Finish surface with steel trowel.

5. Setting/Curing

Initial set, at 20°C: 12 hours

Full cure, at 20°C: 7 days

Do not allow water, chemicals or traffic on the material surface for a minimum of 24 hours. For harsh chemical or physical environments, cure a minimum of 72 hours at 20°C prior to exposure.

6. Storage

Store in original sealed containers in cool, dry place. Under these conditions minimum shelf life is 12 months.

7. Safety Precautions

Liquid and Hardener

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

Powder

Avoid breathing dust. Ensure adequate ventilation.

For full safety precautions refer to Material Safety Data Sheets for all components.

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.
- 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:
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