

METZ 97 POLYURETHANE COATING



DESCRIPTION:

Metz 97 is a high build polyurethane that can be used as a coating on concrete as well as a top coat for Metz polyurethane and epoxy products. Metz 97 is colour stable and has very good chemical and temperature resistance. A slip resistant surface can be produced by the use of a special additive.

FEATURES AND BENEFITS:

- **High build brush and roller application**
- **Colour Stable**
Suitable for both indoor and outdoor applications
- **Good Chemical Resistance**
Resistant to a wide range of acids, alkalis, solvents and salts

RECOMMENDED:

- As a top coat for other Metz resinous flooring systems, such as the Metz 33 series, especially where colour stability is required.
- As a line-marking paint
- As a concrete coating.

NOT RECOMMENDED:

- For areas subject to concentrated acids or solvents. Refer to Metz for alternative products.
- For areas subject to frequent wheeled traffic. Refer to Metz for alternative products.

PHYSICAL PROPERTIES: (Typical Values)

Finish:	Gloss
Solids content:	70% v/v.
Mixing ration by volume:	4 parts liquid to 1 part hardener
Pot life at 20°C:	2 hours
Wet film thickness per coat:	110-180 microns
Dry film thickness per coat:	75-125 microns
Drying times at 20°C, 50% relative humidity:	- Touch Dry: 4 hours
	- Recoat, minimum: 12 hours
	- Foot traffic: 12 hours
	- Full cure 7 days

Note that temperature, humidity, ventilation, film thickness and other factors will influence the rate of drying.

COVERAGE:

Theoretical quantities (allow for wastage)

Metz 97 5.5 sq.m. metres per litre for 180 micron wet film thickness (125 micron dry film).

Metz Epoxy Primer (if required) 0.2-0.3kg per sq.m. depending on absorbency of surface.

APPLICATION CONDITIONS:

Relative humidity must be below 85%. The surface temperature of the substrate must be at least 3°C above the dew point.

The ambient air temperature must be between 5°C and 40°C.

The substrate temperature must be between 10°C and 35°C.

Application in direct sunlight and/or rising surface temperature may result in blistering.



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INSTRUCTIONS FOR USE

1. Conditions of Working Area

Relative humidity must be below 85%. The surface temperature of the substrate must be at least 3°C above the dew point.

The ambient air temperature must be between 5°C and 40°C.

The substrate temperature must be between 10°C and 35°C.

2. Surface Preparation

The substrate shall have a strong, even finish and have all falls incorporated. Concrete shall have a surface tensile strength of at least 1.5MPa.

New concrete should be normally at least 28 days old and have surface moisture content of less than 10%.

All surface contamination, including laitance, curing compounds oil, grease, old coatings etc must be removed by abrasive blasting, high pressure water blasting, diamond grinding and/or chemical cleaning. All gauges, mechanical and chemical damage, surface air voids and other surface anomalies shall be repaired with Metz Epoxy Plaster. Any protuberances shall be removed.

All prepared concrete shall be inspected for cleanliness. Contact Metz for details of inspection procedure.

Metz Epoxy Primer is recommended for concrete surfaces.

3. Mixing

i) *Mixing Equipment*

Mechanical mixing is recommended. A low speed mixer or a heavy-duty drill with an appropriate mixing paddle should be used.

ii) *Mixing Proportions*

Metz Epoxy Primer	By Weight	By Volume
Liquid	1.85	1.6
Hardener	1	1

Metz 97 is supplied in kits of 4 or 20 litres.

If smaller quantities are required the mixing ratio is:

Metz 97	By Weight	By Volume
Liquid	4.6	4
Hardener	1	1

If a slip resistant surface is required, Metz Slip Resistant Additive should be added at the rate of 2% by weight of the total mix. (approx 250mls. per 4 litres of Metz 97)

iii) *Mixing Procedure*

Remix liquid and hardener thoroughly before combining. Mix liquid and hardener, and Slip Resistant Additive if required, together thoroughly, until a uniform colour and consistency is obtained.

Allow to stand for 10 minutes, then remix prior to use.

iv) *Pot Life*

Metz 97 - Approximately 2 hours at 20°C

Metz Epoxy Primer - Approximately 70 minutes at 20°C

v) *Clean Up*

Mixing equipment, brushes, rollers etc., can be cleaned with Metz Cleaner, xylene, acetone or M.E.K. prior to initial set.

4. Installation

i) Metz Epoxy Primer (if required)

Apply to prepared surface using squeegee then back-roll with short nap roller. Ensure total area is covered and surface is completely sealed. Allow primer to dry (usually overnight) before applying Metz 97.

ii) Metz 97

Apply mixed material to prepared substrate by brush or roller. Additional coats may be required to attain the required thickness.

The final wet film thickness should be 110-180 microns, which corresponds to a dry film thickness of 75-125 microns.

Both Metz Epoxy Primer and Metz 97 can be spray applied. Refer to Metz for details.

5. Setting/Curing

Drying times at 20°C, 50% relative humidity:

Touch Dry:	4 hours
Recoat, minimum:	12 hours
Foot traffic:	12 hours
Full cure:	7 days

Note that temperature, humidity, ventilation, film thickness and other factors will influence the rate of drying.

6. Storage

Store in sealed containers in a cool, dry environment. Under these conditions, minimum shelf life is 6 months.

7. Safety Precautions

Liquid and Hardener:

- Avoid contact with skin and eyes.
- Use chemical goggles, gloves and barrier cream.
- Metz 97 is flammable.
- Avoid formation of flames or sparks.
- No smoking or welding.
- Ensure adequate ventilation.
- For full safety precautions, refer to Material Safety Data Sheets for each component.

Always ensure you have the latest data sheet version, refer www.metz.net.au

1. 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.
2. 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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