METZ 33-SL SLIP RESISTANT EPOXY TOPPING



DESCRIPTION:

Metz 33-SL is a 100% solids epoxy resin based flooring system which provides a textured, slip resistant surface.

Metz 33-SL can be used in a wide variety of food processing areas, as it resists food acids, fats, oils and cleaning compounds. Use Metz 33-VG for coves and vertical surfaces.

Metz 33-SL is applied to a nominal thikness of 3mm. After broadcasting aggregate and application of a seal coat the final thickness is 4-5mm.

FEATURES AND BENEFITS:

- Sealed, slip resistant surface provides safe, highly textured surface. R12 V4 rating according to AS 4586-2013 possible.
- Chemical Resistance excellent resistance to a wide rande of acids, alkalis, solvents, oils and fats. Refer Metz Chemical Resistance Chart.
- Excellent Adhesion tenacious bond to correctly prepared concrete surfaces.
- Solventless 100% solids system.
- Cures under adverse conditions cures at temperatures down to 5°C and high relative humidity.
- Ease of application flowable consistency enables quick, easy application.
- Quality Accreditation the management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

RECOMMENDED:

As a monolithic topping to protect concrete against chemical and mechanical attack and to provide slip resistant surface in:

• Dairies & milk products processing

Commercial kitchens

Bars & serveriesChemical plants

- Food processing plants
- Meat & poultry plants
- Heavy industrial flooring

- Breweries & soft drink plants
- Confectionary plants

NOT RECOMMENDED:

- For areas subject to significant spillages of strong solvents or concentrated organic or oxidising acids. Refer Metz 93PU-TG or Metz 33EN Series.
- Where smooth floor finish is required. Refer Metz 92, Metz 94 or Metz 44-SL.

PHYSICAL PROPERTIES: (Typical Values)

Density: 1.9 - 2.0 g/cm³
Compressive Strength: 100 MPa

Adhesion to concrete (ASTM C1583): >1.5MPa (concrete failure)

Flexural Strength 58 MPa Coefficient of Thermal Expansion, per °C: 74 x 10⁶

Slip Resistance (AS4586-2013): R12 V4 (using Broadcast Aggregate 18/40) Complies with specification C.1.10a Fire Hazard Properties of the Building Code of Australia.

Critical Radiant Flux: >8.7kW/m²
Smoke Development Rate: <220%.min

COVERAGE: Theoretical quantities (allow for wastage)

Metz Epoxy Primer * 0.21 kgs per sq metre at 0.2mm thickness
Metz 33-SL (Base Coat) 5.9 kgs per sq metre at 3mm thickness

Broadcast Aggregate 6 kgs per sq metre

Metz 33 Sealer 0.42kgs per sq metre at 0.4mm thickness for standard 30/60 aggregate.

Allow extra if coarser aggregate used.

* Note: Primer may not be required on new (at least 28 days old), good quality internal concrete surfaces that have been track-blasted. Consult Metz for details.



METZ 33-SL SLIP RESISTANT EPOXY TOPPING



INSTRUCTIONS FOR USE

1. Temperature of Working Area

For optimum results, maintain a temperature of 10°C to 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.

and curing is related.

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. Concrete on grade should utilise a waterproof barrier beneath the slab.

- New Concrete New concrete should have attained a compressive strength of 20 MPa minimum. Surface must be free from laitance, form oils and curing compounds. The surface should have a fine wood floated or lightly broomed finish and be 28 days old. Abrasive blast to remove laitance and provide a uniform, textured surface.
- (ii) Old Concrete Concrete must be sound. Remove laitance, old paints, protective coatings and attacked or deteriorated concrete. Chemically clean surface to remove any contaminants.

Abrasive blast or high-pressure water blast to remove laitance and provide a uniform, textured surface. All structural cracks should be repaired and all slopes reestablished

with approved repair material All surfaces must be vacuumed to remove any loose deposits and

(iii) Edge Detail - Where ever an exposed edge of the material occurs, (e.g. in doorways) an anchoring groove at least 10mm deep should be cut in the substrate. Consult Metz for full details.

3. Mixing a) Mixing Equipment

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

b) Mixing Proportions

Metz Epoxy Primer (MEP) Liquid L1 Neutral MEP Hardener	By Weight 1.85	By Volume 1.6
Metz 33-SL Liquid L1 33 Hardener P1 Powder Metz 33 Sealer	2 1 7	5.10 litres 2.72 litres 20kg (1 bag)
Liquid L1 33 Hardener	2	1.88 litres

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

Mixing Procedure

Remix liquids prior to use.

For Metz Epoxy Primer and Metz 33 Sealer - Mix liquid and hardener slowly and thoroughly for 1-2 minutes.
For Metz 33-SL - Mix liquid and hardener together thoroughly for

1 - 2 minutes. Add powder gradually with constant stirring. Mix for 3 - 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.

Pot Life at 20°C Metz Epoxy Primer Metz 33-SL Metz 33 Sealer 70 minutes 30 minutes 20 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.

Clean Up

Mixing equipment, tools, etc., can be cleaned with Metz Cleaner, xylene, acetone or MEK prior to initial set of cement.

Note: Ensure you have the latest mixing instructions, refer www.metz.

net.au for most current data sheet version.

Installation

Metz Epoxy Primer

Apply to concrete using short nap adhesive roller or nylon bristle brush. Metz 33-SL should be placed within 12 hours at 20°C, 6 hours at 30°C.

Metz 33-SL

Material should be placed immediately after mixing. Do not let the mixed material remain in mixing vessel. Spread Metz 33-SL with screed rake, screed or by hand to desired thickness (nominally 3mm). Use spiked roller to level and aid air removal. Finishing must be completed within 30 minutes of mixing at 20°C

(iii) Broadcast & Metz 33 Sealer

Within 20 minutes (at 20°C) of applying Metz 33-SL, broadcast the aggregate into the 33-SL. Use broadcast aggregate 18/40 for maximum slip resistance. For a finer finish, broadcast aggregate 30/60 can be used. Apply to refusal (approximately 6 kgs per sq.m.). Spread evenly. Do not allow to clump. Next day remove excess aggregate by vacuuming, then apply 33 Sealer by short nap roller. Sealer application needs to be sufficient to seal all exposed aggregate but not more or reduced slip resistance may occur.

5. Setting/Curing: Initial set at 20 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.

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

7. Standard Pack Sizes

20kg pail, 200kg drum 10kg pail, 200kg drum Liquid L1 33 Hardener P1 Powder 20kg bag

8. 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 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:
 - a) Metz shall not be liable for any loss or damage including consequential loss or damage or loss of profits arising thereby;
 - b) Metz may at its option replace the defective product free of charge to the customer or refund all payments made to it by the buyer in respect of the defective product; and the maximum liability of Metz shall be the cost of replacing the defective product.