

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 thickness of 3 mm. After broadcasting aggregate and application of a seal coat the final thickness is 4 - 5 mm.

FEATURES AND BENEFITS:

- Sealed, slip resistant surface Provides safe, highly textured surface.
 - 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.

RECOMMENDED:

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

- Dairies and Milk Products processing
 Breweries and Soft Drink plants
- Food processing plants
- Meat and Poultry plants

Confectionary plants

Chemical plants

NOT RECOMMENDED:

 For areas subject to significant spillages of strong solvents or concentrated organic or oxidising acids. Refer METZ 93PU-TG or METZ 33TG-Epoxy Novolac.

(Typical Values)

• Where smooth floor finish is required. Refer METZ 92.

PHYSICAL PROPERTIES:

Density:	1.9 - 2.0 g/cm ั
Compressive Strength:	100 MPa
Adhesion to concrete (ASTM C478):	concrete failure
Flexural Strength	58 MPa
Coefficient of Thermal Expansion, per °C:	74 x 10 ⁻⁶

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
33 Sealer	0.42kgs per sq metre at 0.4mm thickness for standard 18/40 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.

APPLICATION TEMPERATURE:

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

Note: The material temperature should be between 18°C and 25°C to ensure proper self-levelling and adequate pot life.





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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.

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 (i)

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 finewood 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 contamination.

(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.

Mixing 3.

b)

RFV 08/04

Mixing Equipment a)

Mechanical mixing is recommended. A special resinous cements mixer or Festo mixer are suitable. Smaller quantities can be mixed using a heavy duty drill with a suitable paddle. Consult Metz for details. Mixing Proportions

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	METZ Epoxy Primer	By Weight	By Volume
	Liquid	1.85	1.6
	Hardener	1	1
	METZ 33-SL	By Weight	By Volume
	33 Liquid	2	3.84 litres
	33 Hardener	1	2.03 litres
	Powder	7	15kg (1 bag)
	33 Sealer	By Weight	By Volume
	33 Liquid	2	1.88 litres
	33 Hardener	1	1
	Note: Liquid and hardener for 33 Sealer is same as		
	for METZ 33-SL.		
	Note: The liquid to ha	rdener ratio must	not be altered
	under any circumstan	ces	
	-		

c) Mixing Procedure

Remix liquids prior to use. For METZ Epoxy Primer and 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 - 5minutes. 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 70 minutes METZ 33-SL and Sealer 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. Clean Up

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

Installation 4

d)

e)

(i) METZ Epoxy Primer

Apply to concrete using short nap adhesive roller or nylon bristle brush. Metz 33-SL can be placed whilst the primer is still tacky. If the primer has hardened, consult Metz.

(ii) **METZ 33-SL**

Material should be placed immediately after mixing. Do not let the mixed material remain in mixing vessel. Spread METZ33-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 30minutes of mixing at 20°C.

(iii) Broadcast & 33 Sealer

Within 30 minutes (at 20°C) of applying METZ 33-SL, broadcast the aggregate into the 33-SL. 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. Ensure sealer covers all exposed aggregate.

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.				
Safety Precautions				
Liquid and Hardener				
Use chemical goggles,	PVC gloves and barrier cream.			

6.

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.

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