METZ 9HB
HIGH BUILD EPOXY COATING

www.metz.net.au

DESCRIPTION:

Metz 9HB is a 100% solids high build epoxy coating.

Metz 9HB can be used in a wide variety of food processing areas, as it resists food acids, fats, oils and cleaning compounds.

Metz 9HB can also be used for coating gutters and balance tanks in swimming pools, for industrial flooring. A slip resistant surface can be produced by the use of Metz Antislip Additive.

FEATURES AND BENEFITS:

- **Chemical resistance**
  Excellent resistance to a wide range 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.
- **Quality Accreditation**
  The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

RECOMMENDED:

As a coating to protect concrete against chemical and mechanical attack.

- Dairies and Milk Products processing
- Breweries and Soft Drink plants
- Confectionery plants
- Food Processing plants
- Meat and Poultry plants
- Chemical plants
- Swimming pool gutters
- Swimming pool balance tanks

As a sealing coat for Metz 33 series product.

NOT RECOMMENDED:

- For areas subject to spillages of strong solvents or concentrated organic or oxidising acids. Refer Metz 4HB-EN
- For areas subject to extreme traffic - use Metz 33-TG or 93PU-TG

PHYSICAL PROPERTIES:

	(Typical Values)
Density:	1.45 - 1.55 g/cm^3
Adhesion to concrete (ASTM D1583):	>1.5MPa (concrete failure)

COVERAGE: Theoretical quantities (allow for wastage)

Metz Epoxy Primer	0.21 kgs per sq metre at 0.2mm thickness
Metz 9HB	0.3 kgs per sq metre at 0.2mm (200 micron) thickness per coat
	0.8 kgs per sq metre when sealing 18/40 mesh sand broadcast into previous layer

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INSTRUCTIONS FOR USE

1. Temperature of Working Area
For optimum results, maintain a temperature of 5 - 30ºC on air, substrate and components during application and curing. The surface temperature of the substrate must be at least 3ºC above the dew point. At temperatures below 5ºC, the application becomes more difficult and curing is retarded. At temperatures above 30ºC 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. Note: Materials should be kept cool. Reducing material temperature will increase pot life.

2. Surface Preparation
All surfaces must be clean and free from all contaminants which may inhibit bond. For best results, surfaces should be dry. Concrete on grade should utilise a waterproof barrier beneath the slab.

i) *New Concrete* - New concrete should have attained a compressive strength of 20 MPa minimum. Surface must be free from oils and laitance, curing compounds and any other contaminants The surface should be a fine wood float finish and be 28 days old. Light abrasive blast, high pressure waterblast or grind to remove laitance and provide uniform textured surface. Surface moisture content should be less than 10%.

ii) *Old Concrete* - Concrete must be sound. Remove laitance, loose deposits, old paints, protective coatings and attacked or deteriorated concrete. Chemically clean surface to remove any contaminants. All structural cracks should be repaired, all slopes re-established and all voids filled. Smaller voids can be repaired with Metz Epoxy Plaster.

3. Mixing
Mix Liquid component with a slow speed drill for a minimum of 30 seconds and at least until all material is of consistent appearance.

a) *Mixing Equipment*
Mechanical mixing is recommended. A low speed mixer or a heavy duty drill with an appropriate mixing paddle are suitable.

b) *Mixing Proportions*

Metz Epoxy Primer (MEP)	**By Weight**	**By Volume**
Liquid L1 Neutral	1.85	1.6
MEP Hardener	1	1
Metz 9HB	**By Weight**	**By Volume**
9HB Liquid	4.75	3
9HB Hardener	1	1

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

c) *Mixing Procedure* - Remix liquid components prior to use. For Metz Epoxy Primer, mix liquid and hardener together thoroughly for 1 - 2 minutes..For Metz 9HB, mix liquid and hardener together thoroughly for 3 minutes.

At end of the mixing period material should be uniform in colour. 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.

If a slip resistant surface is required, Metz Antislip Additive can be added at the rate of 2% by weight of total mix (approx. 250ml per 4 lts of Metz 9HB). Refer Metz Antislip Additive data sheet for full details, or use Metz Broadcast Aggregate in Metz Epoxy Primer before overcoated with Metz 9HB.

d) *Pot Life*

Metz Epoxy Primer		Metz 9HB	
at 20°C	70 minutes	*at 20°C*	60 minutes
at 30°C	40 minutes	*at 30°C*	35 minutes
at 40°C	30 minutes	*at 40°C*	25 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.

Changes in colour and gloss can occur as the product reaches the end of its pot life. Ensure material is applied well before end of pot life (eg: within 20 minutes at 20ºC.)

e) *Clean Up* - Mixing equipment, tools etc can be cleaned with Metz Cleaner, xylene, acetone or MEK prior to initial set.

Ensure you have the latest mixing instructions, refer www.metz.net.au for most current data sheet version.

4. Installation
(i) Metz Epoxy Primer - Apply to prepared surface using squeegee then back-roll with short nap roller. Ensure total area is covered and surface is completely sealed. Apply more primer if necessary to seal surface. Allow primer to dry, then inspect surface for voids. Fill any voids with Metz Epoxy Plaster.

(ii) Metz 9HB - Spread mixed Metz 9HB on primed suface using a squeegee. Finish by rolling with a short nap roller to obtain uniform coverage. Finished thickness should be 200 microns per coat. For vertical surface apply by roller to desired thickness.

Recoat times at 20ºC	Minimum	Maximum
Metz Epoxy Primer	6 hours	18 hours
Metz 9HB	2 hours	6 hours

5. Setting/Curing:

Setting Time		*Full Cure*	
at 20°C	8 hours	*at 20°C*	3 days
at 30°C	6 hours	*at 30°C*	2 days
at 40°C	4 hours	*at 40°C*	2 days

Do not allow water, chemicals or traffic on the material surface for a minimum of 24 hours. For harsh chemical or physical environments ensure full cure occurs.

6. Storage
Store in original sealed containers in cool dry place. Avoid storing at temperatures over 25ºC for extended periods. 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.

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

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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   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.

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