

METZ 4HB

HIGH SOLIDS EPOXY COATING



DESCRIPTION:

Metz 4HB is a 2-part epoxy resin based compound used as a chemical resistant protective coating for concrete. Metz 4HB is available with a fast setting hardener for use in cold conditions, or when faster setting time is required. A slip resistant surface can be produced by the use of Metz Antislip Additive.

FEATURES AND BENEFITS:

- **Chemical Resistance**
Resistant to splash and spillage of mild acids, alkalis and salts. Refer Metz Chemical Resistance Chart.
- **Cost Effective**
Relatively low material and application costs.
- **Self Priming**
Does not require a special primer.
- **High Build**
Increased protection against damage and abrasion.
- **Antislip properties**
Possible by use of either Metz Antislip Additive or incorporating Metz Broadcast Aggregate into base layer.
- **Quality Accreditation**
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

RECOMMENDED:

As a floor coating to protect against chemical attack in:

- Food and beverage manufacture plants
- Pulp and Paper Mills
- Industrial floors
- Chemical plants
- Bakeries
- Workshops, Warehouses

PHYSICAL PROPERTIES:

Mix Ratio (by volume): 4.0 Liquid to 1.0 Hardener
Classification: Amine Cured Epoxy
Finish: Semi-gloss
Solids by volume: 85% approximately
Pot Life @ 25°C: 2 hours
Finished Dry Film Thickness: 200 microns

		<u>Standard</u>	<u>Fast Setting</u>
Drying time at 25°C and 50% Humidity	Touch Dry	5 hours min.	5 hours min.
	Recoat	24 hours min. 48 hours max.	13 hours min. 48 hours max.
	Light Foot Traffic	24 hours min.	14 hours min.
	Full cure	7 days	7 days

Note: Product may chalk in external applications.

COVERAGE:

Theoretical quantities (allow for wastage)

Spreading rate of 4.2 square metres per litre, corresponding to 235 microns wet film thickness or 200 microns dry film thickness. Practical spreading rates will vary depending on factors such as methods and conditions of application and surface roughness.

Note: More than one coat may have to be applied to reach specified dry film thickness.

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.

For temperatures below 20°C, it is recommended that the fast hardener be used.

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 & 40°C.

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

For temperatures below 20°C, it is recommended that the fast hardener be used.

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

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 gouges, 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.

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. Small quantities can be mixed by hand, using a trowel.

b) Mixing Proportions

Metz 4HB is supplied in pre-weighted kits.

If small quantities are required, the mixing ratio by volume for both standard and fast setting is:

Liquid: 4 parts
Hardener: 1 part

Under no circumstances should the liquid to hardener ratio be altered.

If a slip resistant surface is required, Metz Antislip Additive can be added at the rate of 2% by weight of the total mix (approx 250ml per 4lts of Metz 4HB).

Refer Metz Antislip Additive data sheet for full details, or use Metz Broadcast Aggregate in Metz Epoxy Primer before overcoating with Metz 4HB.

c) Mixing Procedure

Thoroughly remix liquid and hardener components before combining.

Mix liquid, hardener and slip resistant additive (if required) together thoroughly, until a uniform colour and consistency is obtained.

Allow to stand for 10 minutes before use.

Do not add thinners or other additives to mixture.

d) Pot Life at 25°C

Approximately 2 hours.

Note: 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 90mins at 20°C)

e) Clean Up

Mixing equipment, brushes, rollers, 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

Apply mixed material to prepared surface by brush or roller.

Finished thicknesses should be 235 microns wet film which can be built up in one or two coats.

Check wet film thickness every 10 sq. metres.

Setting/Curing Time:

At 25°C	Standard	Fast Setting
Touch Dry:	5 hours min.	5 hours min.
Recoat:	24 hours min.	13 hours min.
	48 hours max.	48 hours max.
Light Foot Traffic:	24 hrs min.	14 hours min.
Full cure:	7 days	7 days

5. Storage

Store in a cool, dry environment for a minimum shelf life of 6 months

6. Standard Pack Size

20L kit

7. Safety Precautions

Liquid and Hardener:

Avoid contact with skin and eyes. Use chemical goggles, PVC gloves and barrier cream. Flammable. Avoid formation of flames or sparks. No smoking or welding. Avoid build-up of fumes. Ensure adequate ventilation.

For full safety precautions refer to the Safety Data Sheet for each component.

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:
 - Metz shall not be liable for any loss or damage including consequential loss or damage or loss of profits arising thereby;
 - 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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