METZ 4HB
HIGH SOLIDS EPOXY COATING

DESCRIPTION:
Metz 4HB is a 85% solids 2-part epoxy resin based compound used as a chemical resistant protective coating for concrete. 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 protective floor and wall coating:

- Food and beverage manufacture plants
- Swimming pool gutters, balance tanks
- Industrial floors
- Workshop floors
- Warehouse floors
- Bakeries

NOT RECOMMENDED:
For busy commercial kitchen or heavy industrial floor applications. Refer to a heavier duty Metz product such as one of Metz 33 series. Refer to Metz for further advice.

For concentrated chemical applications requiring a coating refer to Metz 4HB-EN.

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	90 minutes		
Finished Dry Film Thickness	200 microns per coat		
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:
0.3-0.4kg per sq.metre depending on roughness and absorbency of surface for 200 microns dry film (235 microns wet film) thickness per coat.

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METZ®

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. At temperatures above 30°C, the working time decreases.

2. Surface Preparation
   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 prior to application.

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:

	By Weight	By Volume
4HB Liquid:	5	4
4HB Hardener:	1	1

      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 90 minutes.

      Note: Changes in colour and gloss can occur as the product reaches the end of it's 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

Touch Dry:	5 hours min.
Recoat:	24 hours min.
	48 hours max.
Light Foot Traffic:	24 hrs min.
Full cure:	7 days

5. Storage
   Store in origianl sealed container in a cool, dry environment for a minimum shelf life of 12 months

6. 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

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METZ SPECIALTY MATERIALS PTY LTD
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