METZ 15VE-MORTAR
VINYL ESTER CEMENT

DESCRIPTION:
Metz 15VE-Mortar is a chemical resistant vinyl ester cement based on an epoxy novolac vinyl ester resin, which can be used for bonding acid resistant bricks and tiles. Metz 15VE-Mortar provides excellent resistance to oxidizing chemicals such as chlorine dioxide and hypochlorite solutions as well as many acids, alkalis and solvents at temperatures up to 150°C.

FEATURES AND BENEFITS:
- High Chemical Resistance
  Resistant to strong oxidizing agents, alkalis, solvents and bleaches. Good resistance to Nitric Acid, for full details refer Metz Chemical Resistance Chart.
- High Temperature Resistance
  Resistant to temperatures up to 150°C.
- High bond, Tensile and Compressive Strengths
- Low absorption and shrinkage. Low styrene content.
- Fast Setting
  Initial set in one hour at 20°C.
- Quality Accreditation
  The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

RECOMMENDED:
As a bonding cement for acid brick and tile installations:
- Pulp and Paper Mills
- Acid Plants
- Fertiliser Plants
- Oil Refineries
- Steel Mills
- CIP rooms in food and beverage plants
- Solvent extraction processes

NOT RECOMMENDED:
- For long term immersion in concentrated oxidizing acids. Refer Metz 7K.

PHYSICAL PROPERTIES: (Typical Values)

Density g/cm^3	1.9-2.0
Compressive Strength MPa	84
Adhesion to brick MPa	>2.1 (brick failure)
Maximum Service Temperature °C	150
Tensile Strength MPa	15.4
Modulus of Elasticity MPa	13,300
Shrinkage %	0.3

COVERAGE: Theoretical quantity (allow for wastage)

For fully bonding Acid Brick, 220 x 105 x 75 mm (3mm joint)	0.3 kg per brick
For fully bedding and jointing tiles, 240 x 115 x 30 mm (6mm joint)	15 kgs per square metre
For jointing tiles, 240 x 115 x 20 mm (6mm joint)	3 kgs per square metre

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METZ®

INSTRUCTIONS FOR USE

1. Temperature of Working Area
   For optimum results, maintain a temperature of between 15 - 30°C on air, substrate and components during mixing, application and curing.
   At temperatures below 15°C, the application becomes more difficult and curing is retarded.
   At temperatures above 30°C, initial set will take place too rapidly. This difficulty can be overcome by mixing in a cooler area or by cooling the components.
2. Surface Preparation
   All surfaces must be clean, dry and free from oil, grease, water and other contaminants which may inhibit bond.
3. Mixing
   a) 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) A pre-weighed pack of Metz 15VE-Mortar promoter is supplied. This should be added to 20kgs of Metz 15VE Liquid and mixed thoroughly. Note that promoted Metz 15VE liquid has a limited shelf life.
   c) Mixing Proportions:
   Metz 15VE Mortar is supplied as 3 parts as described below:

   Metz 15VE Mortar Liquid - the base resin

   Metz 15VE Mortar Powder - pre measured pack added in full to the Metz 15VE Liquid to ready it for use.

   Metz 15VE Mortar Powder proportions (after promotion of Liquid)

	By Weight
15VE Liquid	1.0
15VE Powder	3.25

   c) Mixing Procedure

   Liquid component must be promoted prior to its use. As standard Metz supplies unpromoted liquid to maximise shelf life. Add entire contents of promoter to liquid and slowly mix for minimum 3 minutes ensuring thorough mixing. RELABEL LIQUID AS HAVING BEEN PROMOTED

   Decant materials directly into the mixing bucket on electric scale. Measuring by volume gives inconsistent results impacting product performance. The liquid to hardener ratios must not be altered under any circumstances.
   Powder proportion may be altered by ±10% to suit requirements.
   For application in cold climates, an accelerator may be added to assist curing. Contact Metz for details.
   e) Pot Life at 20°C:
   Approximately 25 minutes.
   f) Clean Up:
   Mixing equipment, tools, etc. can be cleaned with Metz Cleaner, acetone or M.E.K. prior to initial set of cement.
4. Installation
   a) Masking of Floor Tiles
   If appearance of this finished floor is important, tiles should first be coated with Metz Masking Compound. Note this is normally not required for industrial applications. Remove 24 to 48 hours after application using warm water and a scrubbing machine.
   b) Application
   Usually Metz 15VE-Mortar will be used to bed and joint acid bricks and tiles over a rubber or Metz membrane. For other applications consult Metz.
   Apply using appropriate trowel by the bricklayers method. Ensure that bricks/tiles are fully covered with Metz 15VE-Mortar and are beaten into place with joints 3 to 4mm in size.
   If only grouting tiles a wide joint will be required and application would be by trowel. Ensure joints are flush and Metz 15VE-Mortar fully fills the depth of the joint. Remove excess material with Metz Cleaner before setting.
   c) Setting Time:
   Initial set: 1 hour at 20°C
   Final set: 24 hours at 20°C
   d) Full Cure:
   72 hours at 20°C
5. Storage
   Store under cover in sealed containers in dry conditions at temperatures between 5°C and 30°C. Under these conditions, shelf life is 6 months for powder and unpromoted liquid. Promoted liquid has a reduced shelf life and should be used within 1 month.
6. Safety Precautions
   a) Liquid:
   Inflammable. Avoid formation of sparks.
   Avoid contact with skin and eyes. Avoid breathing vapour. Use barrier cream. Wear safety glasses and protective gloves. Ensure adequate ventilation.
   If contact occurs, wash with copious amounts of water. Seek medical attention.
   b) Powder:
   Avoid contact with skin and eyes. Avoid breathing dust. Ensure adequate ventilation.
   c) Cleaner:
   Flammable. No smoking. Avoid formation of sparks. Ensure adequate ventilation.

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

Always ensure you have the latest data sheet version, refer www.metz.au

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