

METZ 15VE

VINYL ESTER CEMENT



DESCRIPTION:

Metz 15VE is a two-part cement based on an epoxy novolac vinyl ester resin, which is used for bonding acidproof bricks and tiles. Metz 15VE 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. 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.

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 Sauereisen 65.

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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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 15VE promoter is supplied. This should be added to 20kgs of 15VE liquid and mixed thoroughly. Note that promoted 15VE liquid has a limited shelf life.

c) Proportions:	By Weight	By Volume
Liquid (promoted)	1	1
Powder	3.25	2.8

Powder proportion may be altered by $\pm 10\%$ to suit requirements.

For application in cold climates, an accelerator may be added to assist curing. Contact Metz for details.

d) Mixing Procedure:

Place measured quantity of liquid in mixing container. Add powder gradually while mixing continuously until mortar is uniformly blended.

Do not leave mixed material in a thick mass as this will greatly decrease the pot life.

Spread freshly mixed material thinly in a shallow tray.

Material which has begun to set must be discarded.

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.

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

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.

b) Application

Apply using trowel or gun. For bedding and jointing brickwork, ensure that brick surfaces to be bonded are fully covered with Metz 15VE and are well beaten down with joints of minimum width (3 to 4.5mm). When jointing floors, ensure joints are flush with tile surface. Remove excess cement with cleaner before it begins setting. If masking compound has been used it can be removed the next day with water and a scrubbing machine..

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.

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 Material Safety Data Sheet for each component.

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.
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