

**TECHNICAL DATA SHEET****EPOXY MORTAR :**

Epoxy Mortar is widely used for Acid Resistant Bricks & Tiles lining works as Bedding & Jointing Mortar for Tanks, Floor, Drain, Foundation, Chemical Reaction Vessels, and Neutralization Pit etc.

Resistant: It is resistant to Non-Oxidizing Acids, Alkalies, Salt, Detergents, Oils, Greases and some solvents.

Resistant to temperature: 90°C (Max.)

**Preparation of Mortar:**

Epoxy Mortar consists of Resin, Hardener & Powder. In order to obtain good working consistency, the average mixing ratio as under

Epoxy Resin	:100 pbw
Epoxy Hardener	:60 pbw
Epoxy Powder	:350 to 400 pbw

This ratio will slightly vary depending upon the temperature and working conditions.

- (A) All material to be used as per above stated ratio.
- (B) Take Epoxy resin & hardener in mixing pan, stir both the liquid thoroughly before use.
- (C) After that add Epoxy powder slowly and gradually mix with above liquids.
- (D) The mixing operation should be continued until a uniform mixture is obtained.

Prepare small batches of Mortar.

Make sure that all the Mortar is used from the mixing pan before another batch is prepared.

**Surface Preparation:**

The cement plastered surface shall be slightly rough in line & level, dry & clean, free from dust, dirt, grease, oil etc., maintaining required slope etc. as no slope can be adjusted or altered in Acid proof lining works.

**Application**

After proper mixing, mortar should be buttered on back and sides of tiles/bricks to be laid. Apply little more and after laying squeeze the excess mortar. If only joints filling are done with epoxy mortar, be sure that full depth of joints is filled with mortar. There should not any air pocket in the joints, During & after completion of the installation, area must be kept dry and free from any other materials, traffic, which can affect setting and curing of epoxy mortar.

**Setting/Curing:**

Epoxy Mortar is a Self-hardening due to its chemical reaction which occurs when the Resin, Hardener & Powder are mixed together.

An initial setting occurs in 4 to 5 hrs. at 30°C  
Final Setting occurs in 24 to 48 hrs. at 30°C  
Curing time: 7 days at 30°C

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Please ensure that no water shall be spilled over the brick lining work before it completely cured.

#### Mechanical/Physical property:

Working time at 30 °C	: 20 minute (min)
Density of cured mortar	: 1.8 to 2.0 gm. per cc
Bond strength	: 12 Kg./Cm <sup>2</sup>
Compressive Strength	: 500 Kg/Cm <sup>2</sup>
Flexural Strength	: 150 Kg/Cm <sup>2</sup>
Water Absorption	: 1% (Max.)

#### Equipment Cleaning

Equipment & Hand should be cleaned before Epoxy Mortar begins to set, Soap and water is to be used for cleaning the purpose.

#### Safety:

At the time of mixing Or Applying Epoxy mortar wear Protective hand Gloves, Goggles and Mask for protection.

#### Storage Life

Resin	: 12 Months at the temperature 30°C ( $\pm 2^{\circ}\text{C}$ )
Hardener	: 12 Months at the temperature 30°C ( $\pm 2^{\circ}\text{C}$ )
Powder	: 24 Months at the temperature 30°C ( $\pm 2^{\circ}\text{C}$ )

All three components are stored in cool and dry place under the roof until ready to use it original unopened (Sealed) containers.

#### Packing

Epoxy Resin	: 30 Kg. in . Plastic Carboy
Epoxy Hardener	: 30 kg. in . Plastic Carboy
Epoxy Powder	: 50 Kg. in Plastic Bag.

Export packing ( As per customer's requirement)

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