

### 1.0 Description:

- EPICHOR 1768 is two-component solvent free epoxy mortar used mainly as for fixing dowels in concrete and repairing mortar.
- Is relatively insensitive to moisture.
- Has quick initial setting time.
- High compressive & bond strength which ensures monolithic behaviour with concrete.

### 2.0 Uses:

- For Fixing Steel Dowels in concrete.
- As patch repair mortar for concrete.
- Grouting for concrete cracks, machinery, railways & base plates.

### 3.0 Approval & Certification:

Pull off test : Research Center – Faculty of Eng – Ain Shams University  
Compressive test : Research Center – Faculty of Eng – Ain Shams University

### 4.0 Colours:

Grey in color.

### 5.0 Product Data:

Solid Content : 99±1%  
Density : 1.8 gm/cm<sup>3</sup>  
Compressive Strength (7 days) : 640 Kg/cm<sup>2</sup>

Pull of test with EPICHOR 1768P as primer:

No	Code	Diameter of Steel Rod (mm)	Length of Embedded Steel Rod (cm)	Failure Load(Ton)	Failure Mode
1	4	10	11.5	4.0	Concrete Failure (A)
2	5	10	10.5	4.0	Rod Bond Failure (C)
3	6	10	9.9	3.9	Concrete Failure (A)

### 6.0 Consumption per coat:

Consumption (R+H) : 1.8 gm/cm<sup>3</sup>

### 7.0 Surface Preparation:

- Substrate shall be Reinforced concrete with dimension and steel reinforcement suitable for fixing steel dowels.
- Stress shall not be less than 200 kg/cm<sup>2</sup> or according to project specification.
- Substrate should be free of oil grease, dust, or any other dirt.
- All weak or separated layers in concrete should be removed
- Substrate should be minimum 4 weeks curing.
- Moisture should not exceed 5%.

### 8.0 Application Methods:

1. Clean the holes and remove oil and grease or foreign materials.
2. Wear gloves & eye goggles before working & be sure of good ventilation.
3. Add resin EPICHOR 1768 to hardener and mix well.
4. Apply EPICHOR 1768 by filling the required cracks or holes.

5. Clean tools using solvent ex: Thinner.

*Notes:*

- *Temperature of the substrate should be min 10°C and below 35°C.*
- *Good ventilation should be ensured.*
- *The coating shall not be exposed to any spillage or mechanical wear until fully cured.*

9.0 Product mixing Ration by weight:

Resin : Hardener	: 12.0 : 1.0	by weight
Container	: Sealed pre weighed	Steel + plastic Containers
Total Weight	: 1	kg

*Notes:*

- *The product components shall not be divided as total weight of each component shall be totally used. Slow Mechanical Mixing is recommended.*
- *Mixed components should be transferred to a third container and remixing should take place to reach ultimate results.*

10.0 Pot life, Drying and curing time:

Initial Curing Time	: 24	hours at 24°C
Final Curing Time	: 7	days at 24°C
Pot Life	: 20 min at 24°C	10 min at 35°C

**11.0 Disclaimer:**

- The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. We cannot guarantee anything but the above-mentioned quality of the products themselves. Minor product variations may be implemented to comply with local requirements. We reserve the right to change the given data without further notice. Users should always consult us for specific guidance on the general suitability of this product for their needs and specific application practices.
- Samples of any approved delivered materials shall be retested after delivery.
- These products are for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to our technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to our responsible representative for approval before commencing the work.

**12.0 Handling of Epoxy Products:**

- Avoid contact with eyes and skin. Emergency showers and eyewash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.
- Use personal protective equipment.
- When using, do not eat, drink, or smoke.

**13.0 Compatibility:**

- Primers applied prior to specified product shall always be epoxy based products.
- For floor Repairing and fixing defects, product shall always be epoxy based products
- For Wall repairing and smoothing surface a cement based, or epoxy-based products can be used.
- Recoating can be epoxy or polyurethanes products.

**14.0 First aid Measures:**

- General advice: Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
- Skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Initiate and maintain gentle and continuous irrigation.
- Take off contaminated clothing and shoes immediately.
- Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation: Move to fresh air.

**15.0 Storage:**

- Store in steel containers, above ground, and surrounded by dikes to contain spills or leaks.
- Do not store in humid or extra hot weathering conditions.
- Keep containers tightly closed away from heat & in dry, cool, and well-ventilated place.