

# EPOBOND

## Epoxy Bonding Agent

### Description

**EPOBOND** is a two-component thixotropic solvent free, epoxy adhesive. It is composed of liquid epoxy resin and hardener that is used for bonding structural concrete fresh to old concrete. **EPOBOND** is formulated with special chemicals to give excellent mechanical and bonding properties for concrete substrates.

### Features & Benefits

- High mechanical and adhesion properties
- Solvent free
- Moisture tolerant, hence provides strong bond of fresh concrete to old concrete
- High impact resistant
- Impermeable with no shrinkage
- Resistant to chemical attack
- Tensile strength higher than concrete
- Comfortable open time to complete the work
- Excellent water resistance and sealing properties
- Durable

### Uses

It is used for structural casting resumption between fresh and old concrete, casting resumption of damaged industrial flooring, resumption of plasters, sealing of cracks or fissures of cement screeds, concrete with steel gluing, roads, bridges, pavements, loading bays and factories.

**EPOBOND** is used for internal and external applications.

### Technical Properties

Appearance	Liquid resin
Color	Green
Density	1,200 Kg/m <sup>3</sup> approx.
Pot life	120 minutes @ 25 °C
Adhesion to concrete	3.5 N/mm <sup>2</sup>

Compressive strength	70 N/mm <sup>2</sup>
Tensile Strength	30 N/mm <sup>2</sup>
Shear strength	33 N/mm <sup>2</sup>
Solid Contents	100%
Water Absorption	<0.05%
Complete hardening	5 days @ 30 °C
Maximum overlay time	20 hrs @ 25 °C

All values are subject to 5-10% tolerance

### Standards Compliance:

- ASTM C881, D695 & D638
- ASTM D570
- BS 6319

### Application Procedures

#### Surface preparation:

The surface must be thoroughly cleaned and prepared. Remove all loose particles, dirt, dust, laitance, and mould release agents, curing compounds, oils, grease, floor hardeners and any waterproofing materials for best results. Remove laitance, dirt and dust by mechanical scarification such as wire brushing, scrapping, scabbling or grit blasting.

Clean the dust by pressurized air or by washing with water.

Oil and grease should be removed by degreasing with solvents like turpentine or thinners.

Visible signs of mould growth should be removed & treated with a fungicidal solution.

### Mixing Instructions:

Stir the hardener and base separately. Empty the hardener content into the base container and mix the two components thoroughly, till a uniform homogeneous paste like is obtained. For a perfect mixing, a low speed electric motor attached with a suitable puddle is recommended.

## Application Instructions:

Apply by brush, roller or squeegee. On porous surfaces, apply in such a manner that material briefly "floods" the surface, allowing good penetration. If material is completely absorbed, apply additional material.

New concrete or other cementitious topping/patching materials may be applied at any point from immediately after **EPOBOND** application, until the mixture begins to "gel" and becomes tacky. Do not apply toppings over **EPOBOND** which is cured to a tack-free. Reapply **EPOBOND** per the above instructions if necessary, to assure proper bonding under such conditions.

## Coverage

**EPOBOND** will cover 3.5-4 m<sup>2</sup> per Liter depends on surface porosity and roughness

## Packaging

**EPOBOND** is available in 4 Ltr. kit

## Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

## Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

## Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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**SALES OFFICE** : Dubai, Barsha, Rasis Business Center  
**FACTORY** : RAK, Jazerat Al Hamra

Tel.+971 4 3999927  
Tel. +971 7 2210066  
Fax. +971 7 2433821  
P.O.Box 14569  
[www.sbi-me.com](http://www.sbi-me.com) , [info@sbi-me.com](mailto:info@sbi-me.com)