

CHEMAX EPBOND

Epoxy resin concrete bonding agent

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DESCRIPTION:

CHEMAX EPBOND is based on solvent free epoxy resins containing pigments and fine fillers. It is supplied as a two part material in pre weighed quantities for ready onsite mixing and use.

Colored components - white base and green hardener - provide visual evidence that adequate mixing is achieved

ADVANTAGES:

1. Can be used by brush
2. More overlay time
3. High bond strength
4. Barrier Coat

PACKAGING:

500gm, 1kg, 5kg



1800 - 419 - 3637



chemaxchemicals



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Office Address:

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CHEMAX CONSTRUCTION CHEMICAL PVT. LTD.

E-visit: www.chemaxchemical.com

Support : 1800 - 419 - 3637

Factory Address:

43-48. SAT SHREE SHYAM INDUSTRIES, NR KOTHA
GAM, KIM-394111, SURAT (GUJARAT)



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Uses:

- For bonding new cementitious materials to existing cementitious surfaces. For use on horizontal surfaces and on vertical surfaces where mortar or concrete can be supported by formwork. Ideal for extensions and repairs to structural concrete in buildings, loading bays, bridges, roads, bonded or granolithic floor toppings etc.

Advantages:

- CHEMAX EPBOND can be applied by brush.
- **More overlay time:** Enables to place the concrete up to 6 hrs after applying CHEMAX EPBOND, without risk of delamination
- **High bond strength:** Bond strength is more than the tensile strength of good quality concrete
- **Barrier coat:** Acts as a 'barrier coat' to the migration of chloride ions from host concrete.

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Technical support:

- The Company provides a technical advisory service supported by a team of specialists in the field.

Design criteria:

- CHEMAX EPBOND is designed with an overlay time of 10 hrs at 20⁰C, 6 hours at 30⁰C making it more suitable for use where additional steel reinforcement and formwork has to be fitted or where temperature is high. The minimum application temperature for CHEMAX EPBOND is 10⁰C. Consult the local CHEMAX office for further information.

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Properties:

Specific gravity	1.15 to 1.2 g/cc	
	At 20°C	At 30°C
Pot life	5 - 6 hrs	2 - 3 hrs
Full cure	7 Days	5 Days
Overlay time	10 hrs	6 hrs
Compressive strength (BS 6319 Pt 2) @ 7 days	50 N/mm ²	
Flexural strength (BS 6319 Pt 3) @ 7 days	35 N/mm ²	
Tensile strength (BS 6319 Pt 7) @ 7 days	20 N/mm ²	
Shear strength (BS 6319 Pt 4) @ 7 days	10 N/mm ²	
Adhesive strength to concrete	In general the bond strength will always exceed the tensile strength of M30 concrete	

Specification clauses:

- The bonding agent shall be CHEMAX EPBOND an epoxy based two component resin system prepacked in distinct colors to give visual evidence for proper mixing. The bonding agent should remain in tacky state after application for a minimum period of 6 hours at 30°C. There shall not be bond failure of the specimen when tested by slant shear method according to BS 6319 pt 4, with M30 concrete.

Application instructions**Preparation:**

- All surfaces to be treated must be firm, dust free and clean. All laitance should be removed by etching with re cleaner and wire-brushing. In some cases, the existing concrete must be chipped to a sound substrate. Where surfaces are contaminated with oil or grease, this should be removed by using a strong industrial detergent or organic degreaser. Surface should be washed thoroughly with water and dried before the application of CHEMAX EPBOND.

Mixing:

- The entire contents of the hardener can should be poured into the resin container and the two materials thoroughly mixed until a uniform color is obtained. To facilitate application at temperatures below 10°C the separate components should be warmed in hot water to a maximum of 25°C before mixing.

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Coating:

- Mixed CHEMAX EPBOND should be brush applied to the prepared surface. The new concrete should be placed within 6 hours at 30⁰C to the CHEMAX EPBOND coated substrate, when it is in a tacky state.

Limitations:

- CHEMAX EPBOND should not be applied when the temperature is below 10⁰C. If any doubts arise concerning temperature or substrate conditions, consult the local CHEMAX office.

Estimating

Packaging:

- Available in 1 ,5 ,20 kg industrial packs.

Coverage:

- Approximately 2.6 m²/liter. Actual coverage will depend upon the texture and porosity of the substrate being covered.

Storage

Shelf life:

- 12 months if stored under normal warehouse conditions below 35⁰C, in unopened containers.

Precautions

Health and Safety:

- Contact with skin and eyes should be avoided. Gloves should be used when handling these products. If contact with the resin occurs, wash immediately with a strong detergent or a resin removing cream. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

Fire:

- CHEMAX EPBOND is inflammable. No naked flame should be allowed near the site. Do not smoke during use.