



MCON RASAYAN PVT. LTD.

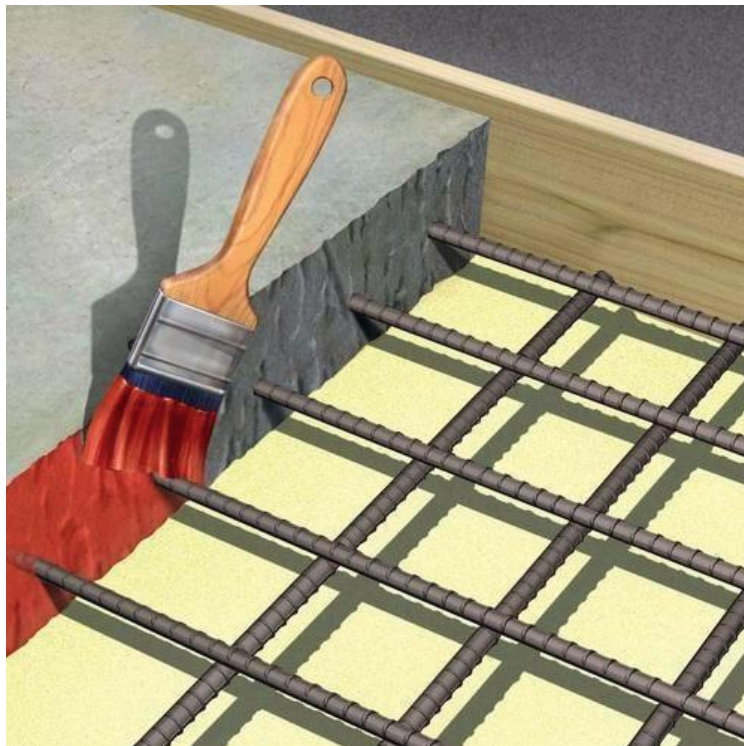
Trusted Partners In Construction Chemicals

• MCON BOND EP •

EPOXY BASED CONCRETE BONDING AGENT

Product Description :-

MCON BOND EP is a two pack solvent-free epoxy resin containing fine fillers and slow curing high strength adhesive suitable for civil engineering. It is supplied as a two part material for ready on site mixing & use.





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Features & Benefits :-

- ✓ **Excellent adhesion**
- ✓ **Increases bond strength**
- ✓ **Very good chemical resistance and very less shrinkage**
- ✓ **Easy to apply as has a brushable consistency with longer pot life**
- ✓ **Cures even on damp surface**
- ✓ **Ensures perfect waterproof bond.**
- ✓ **Long workable time of almost 6 hours**
- ✓ **Moisture insensitive for long term durability.**
- ✓ **Excellent adhesion and impact resistance.**
- ✓ **Acts as a barrier coat to the migration of chloride ions from host concrete.**





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Uses :-

- ✓ Bonding renders and screeds
- ✓ Bonding of fresh concrete to existing concrete.
- ✓ To prepare Epoxy Repair Mortar with help of Quartz sand.
- ✓ To bond together precast concrete sections.
- ✓ As a primer for any epoxy coating and screed.



Method of Application :-

Surface Preparation :-

Substrate must be sound, clean and free from laitance and all contamination viz. oils, greases etc.

Mixing :-

MCON BOND EP comprises of two components, the resin BASE and the HARDENER, which are supplied pre-weighed in the correct proportions.

When required for application, the HARDENER should be poured into the can containing the BASE and drained well.

Both the components should be thoroughly mixed, preferably using a mechanical stirrer, e.g. electric drill with stirrer attachment, until a uniform colour is obtained.



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Application :-

- (A) For bonding together concrete sections; apply an even coating of MCON Bond EP to both prepared surfaces using a brush or roller. Ensure that both surfaces are saturated and bring the sections together under light pressure. Remove any resin which extrude from the joint. Protect the job from agitation until the resin is set.**
- (B) For bonding screeds; renders or fresh concrete to existing concrete surfaces ; apply an even coating of MCON Bond EP to the prepared old concrete surface using a brush, or roller. The fresh concrete or mortar should then be placed on top of the resin layer after 15 Min and within 5 Hours at 30 °C.**
- (C) For Epoxy Repair Mortar – Mix quartz sand in the ratio of 4:1 to the prepared Epoxy mix. Use a slow paddle drill and mix continuously while adding the quartz sand to the mix. The gradation of quartz sand should be 8 x 16 (2 parts), 16 x 30 (1 part), 30 x 80 (1 part). The prepared mix has to be used within 30 minutes on the above prepared surface.**





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Technical Specification :-

Colour	Biscuit colour
Usable Life	2 to 3 hrs at 30 °C
Cure Rate	A tack free film obtained after 3 hours at 30 °C
Cure Time	7 days
Concrete bond (Dry)	Failure of Concrete

Temperature Limitation :-

During Application :	10 to 50 °C
In service (when full cured) :	20 to 50 °C
Compressive Strength : (BS 6319:Part 2)	50 N/mm² @ 7 days
Flexural Strength : (BS 6319:Part 3)	35 N/mm² @ 7 days
Tensile Strength : (BS 6319:Part 7)	20 N/mm² @ 7 days
Shear Strength : (BS 6319:Part 4)	10 N/mm² @ 7 days



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Coverage :-

MCON BOND EP will vary depending upon the porosity & texture of the surface and the ambient temperature but as a general guide 0.3 kg per m² should be allowed.

Ratio of Base:Hardner = 1:1



Quality Assurance :-

MCON RASAYAN manufactures entire range of construction chemicals under compliance of ISO 9001, ISO (EMS) 14001 & OHSAS 18001. (Occupational Health and Safety)



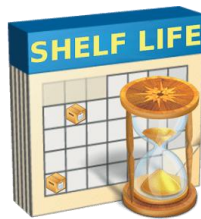


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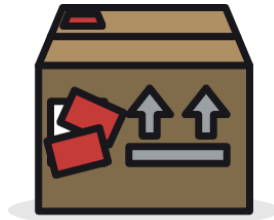
Shelf Life & Storage :-

MCON BOND EP will have a shelf life of 6 months in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher temperature or high humidity may reduce shelf life.



Packing :-

1 kg & 5 kg



**(Mcon Rasayan has maintained the highest level of Quality and Consistency by following Systems is certified and as an ISO 9001 : 2015, ISO 14001:2015 & ISO 18001:2015 Company.)*

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