



## MCON BOND EP

TWO PART EPOXY BONDING  
AGENT FOR STRUCTURAL REPAIRS



### 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.

### Features & Benefits :-

- Acts as a barrier coat to the migration of chloride ions from host concrete.
- Easy to apply as has a brush able consistency with longer pot life.
- Excellent adhesion and impact resistance.
- Moisture insensitive for long term durability.
- Very good chemical resistance and very less shrinkage.

### Areas of Application :-



Precast  
Concrete



Screeding



Concrete



Epoxy Coating

### 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

### Temperature Limitation :-

During Application	30°C
In service (when full cured)	1 - 2 Hrs
Compressive Strength : (BS 6319:Part 2)	50 N/mm <sup>2</sup> @ 7 days
Flexural Strength : (BS 6319:Part 3)	35 N/mm <sup>2</sup> @ 7 days
Tensile Strength : (BS 6319:Part 7)	20 N/mm <sup>2</sup> @ 7 days
Shear Strength : (BS 6319:Part 4)	10 N/mm <sup>2</sup> @ 7 days



CONCRETE REPAIRS



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### Easy To Apply :-

#### 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.

#### Application :-

- 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.
- 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.
- 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.

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 m<sup>2</sup> should be allowed.

**Ratio of Base:Hardner = 1:1**



#### Coverage :-

30 Sq.ft Per Pack /  
Single Coat



#### Packing :-

4 Kgs Pack

### Shelf Life :-

- 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.

An ISO 9001 : 2015 - An ISO 14001 : 2015 - AN BS OHSAS 45001 : 2018

**MCON RASAYAN PVT. LTD.**

Trusted Partner In Construction Chemicals

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