



# MCON MICRO MORTAR

HIGH STRENGTH NON-SHRINK MICRO  
CONCRETE FOR REPAIR WORK



## Product Description :-

MCON MICRO MORTAR is a ready to use dry powder which requires only addition of clean water at site to produce a free flowing non shrink repair micro concrete. It is composed of good quality cement, properly selected aggregates & additives. It is used & designed for repairing of damaged reinforced concrete elements like columns, beams & structure where the areas are restricted or not easily accessible for proper placement of concrete using vibrator. MCON MICRO MORTAR has excellent flow ability, work ability & proper particle size to reach small & congested reinforcement.

## Features & Benefits :-

- Shrinkage compensation – Controlled expansion system which compensates for shrinkage and settlement in the plastic state.
- Early reinstatement -Rapid strength gain helps in early reinstatement & removal of shuttering.
- Chloride content - Contains no chloride based additive so prevents corrosion of reinforcement.
- Durability - Makes repaired sections highly durable & compatible to parent concrete.

## Areas of Application :-



*RCC Columns*



*Beams*



*Walls*

## Technical Specification :-

Compressive Strength	ASTM C 109 : 99
	20 N/mm <sup>2</sup> at 1 day
	31 N/mm <sup>2</sup> at 3 days
	37 N/mm <sup>2</sup> at 7 days
	60 N/mm <sup>2</sup> at 28 days
Expansion	0.45 %
Water Cement Ratio	0.16
Wet Density	1750 ± 50
Dry Density	1600 ± 50



CONCRETE REPAIRS



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### Easy To Apply :-

- Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc.
- Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Apply MCON STEEL RR for rust free bars.
- For Cathodic Protection, apply MCON STEEL 2K or MCON STEEL ZRP over the cleaned re bars and allow it to dry before pouring of MCON MICRO MORTAR.
- Saturate the substrate with water to prevent absorption of water from the mixed material.
- In case of a very old concrete substrate, it should be primed by applying one coat of MCON BOND EP – epoxy bonding agent. Allow the bonding agent to reach tacky condition before pouring of mix concrete.
- Use PAN Mixer for mixing of MCON MICRO MORTAR.
- Charge 85-90 % of clean & potable mixing water (3.75 to 4 ltr per 25 kg bag) to a PAN Mixer.
- Start addition of Micro Concrete powder slowly under continuous mixing. Keep mixing for 2 minutes. Add balance quantity 15 – 20% of mixing water & again mix for another 2-3 min to form a homogeneous, free flowing, uniform & lump-free mix.
- Pour or pump the mixed MCON MICRO MORTAR into a watertight shuttering.
- Cure the repaired concrete for minimum 7 days after removing the shuttering.



### Coverage :-

1.5 Sq.Mtr @  
10 mm thickness



### Packing :-

25 Kgs

### Shelf Life :-

- 6 months from manufacture in original unopened bags if stored in dry conditions.

### Precautions & Limitations :-

- MCON MICRO MORTAR can applied in section up to 100 mm depth.
- For thickness more than 100 mm, addition of pre-calculated aggregates may be required. Consult technical team for more details.
- Strictly follow water-powder ratio as specified. Ensure that the shuttering is 100% water tight.
- Ensure full exposure of reinforced steel.

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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