



CRETESTONE  
SOLUTIONS  
CRETE

## CRETORE MICRO CONCRETE

[High Performance Non-Shrink Cementitious Micro Concrete For Concrete Repair]

### Description

CRETORE MICRO CONCRETE is specially designed pourable, shrinkage compensated, ready to use high performance micro concrete with selected cement, aggregate and other chemicals.

### Uses

CRETORE MICRO CONCRETE is a unique multipurpose material which can be used for deep repairs on all sorts of concrete structures like:

- Tunnels, dams and mines
- Car parks and basements
- Reservoirs and power stations
- Structural strengthening by section enlargement
- Highway bridges & culverts
- Column and beam jacketing, etc.

### Characteristics / Advantages

CRETORE MICRO CONCRETE gives the following advantages:

- Easy to mix and apply. Easily pumpable
- High ultimate strength with rapid strength development
- Impact resistant
- Non corrosive / Non toxic
- Ultimate bonding with existent concrete
- Excellent flow characteristics. No vibration needed

### Technical Data

Chemical Base	Cement based modified with special fillers and additives
Packaging	30 Kg Bags
Compressive strength	
1 Day	≥25 N/mm <sup>2</sup>
7 Day	≥45 N/mm <sup>2</sup>
28 Day	≥65 N/mm <sup>2</sup>
Shrinkage	No shrinkage after initial setting
Expansion	Upto 4% [ASTM C 1090]
Mixing Ratio [Water to Powder]	0.14 – 0.16% [Dependent on
desired flow] Pot life at 28°C	18-20 min
Shelf Life	12 months from date of production if stored properly in undamaged un- opened, original sealed packaging.

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### Application Information

#### Mixing & Laying

1. Place about 80–90 % of the premeasured clean water into a clean mixer and gradually add the whole bag of CRETONE MICRO CONCRETE into it while continuously mixing.
2. Add the remaining water until the desired consistency is obtained. Mixing time should be minimum 3 minutes
3. Small volume mixing may be carried out with a suitable slow-speed (500 rpm) drill or mixing paddle. After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. The micro concrete is then poured immediately into the prepared formwork.
4. When carrying out large scale repairs of column / beam jacketing, ensure sufficient pressure head is maintained for uninterrupted concrete flow. Form- work must be firmly placed and kept watertight. When placing CRETONE MICRO CONCRETE over large area, it is important to maintain a continuous flow throughout the process. In large areas, it may be mixed and pumped using heavy duty screw feed and piston pumps.

#### Points To Remember

Mix only amount of material which can be used within the pot life mentioned  
Do not add extra water  
Mix full bag at one time for best result

#### Storage

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

#### Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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