



MICROCRETE MR

Micro concrete in RCC repairing works with high workability



DESCRIPTION

BYZON MICROCRETE MR is factory designed pourable, shrinkage compensated, high performance microconcrete with selected cement, aggregate and other chemicals. Recommended water and coarse aggregate to be added at site as per requirement.

FEATURS & BENEFITS

- › No vibration needed
- › Easily pumpable
- › Excellent flow characteristics
- › Rapid strength development
- › High ultimate strengths
- › Impact resistant
- › Non-corrosive
- › Iron and chloride free

AREA OF APPLICATION

- › Highway bridges and culverts
- › Tunnels and mines
- › Dams and reservoirs
- › Car parks and basements
- › Power stations
- › Sewerage and water treatment structures
- › Anywhere where localised deep repair is required

METHOD OF APPLICATION

- › Defective concrete surfaces must be cut back to a sound base than smooth surfaces should be mechanically roughened.
- › Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is important to clean the steel to a bright condition. Grit-blasting is recommended.
- › Immediately prior to placing, any free water should be removed.
- › Care should be taken to ensure that MICROCRETE MR is thoroughly mixed in a forced-action mixer of adequate capacity. The quantity water required will generally be between 4.5 to 4.75 liters per 25 kg bag of MICROCRETE MR
- › Slurry tight form work that should not deform or leak when subjected to hydraulic pressure imposed by the micro concrete will be fabricated and erected where the material is gravity fed.

- The mixed material should be placed immediately. If placed by pump, standard concrete pumping practice should be followed. The pump and pipeline must be primed with cement slurry. Pumping should be commenced immediately after priming. If poured in the form work, avoid air entrapment by pouring from one side only.

Placing

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Low temperature working

- In cold conditions down to 15°C, the use of warm water (up to 30°C) is advisable to accelerate strength development. Normal precautions for working with cementitious materials in winter should be adopted.

High temperature working

- At ambient temperature above 35°C the material should be stored in the shade and cold water used for mixing.

Curing

- As MICROCRETE MR is a cement-based repair material, it must be cured immediately after stripping the form work in accordance with good concrete practice.

TECHNICAL INFORMATION

PROPERTIES	RESULT
Appearance	Grey powder
Fresh Wet Density	2200 - 2300 kg /m ³
Compressive Strength	>10 N/mm ² @ 1 day >35N/mm ² @ 7days >45N/mm ² @ 28 days
Flexural Strength	5.0 N/mm ² @ 28 days

COMPLIANCE STANDERD

- DIN 1048 part-5
- BS 6319 pt. 3
- BS 1881 pt.1161 & pt. 122 ASTM C157-93

PRECAUTIONS & NOTE

- Maximum 40% clean Aggregate (< 5mm size) or clean Sand can be used

SHELF LIFE

- 12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

PACK SIZE

- 25 Kg Bag

SAFETY PRECAUTIONS

- Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only..