B&B Specialities (INDIA) Private Limited.

"The Specialty Chemical Company"

HI-MICRO CONCRETE

(Mortar for Repairs of Damaged Reinforced concrete members.)

DESCRIPTION

HI-MICRO concrete is a dry ready to use cement-based powder. Which is 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. It requires only addition of clean water at site to produce a free flowing non shrink repair micro concrete. It is a cementitious material incorporated with additives which impart controlled expansion characteristics in the plastic state with reduced water demand. It has excellent flowability, workability & proper particle size to reach small & congested reinforcement.

USES

It is designed for use in medium & large volume repairs typically ranging from 5mm to 50 mm thickness & deep.
Dense reinforcement areas where conventional concreting is difficult
For congested RCC Reinforcement Repairs & rehabilitations & Jacketing

ADVANTAGES

- Develops high initial and ultimate compressive strength.
- Offers excellent resistance to moisture ingress. Can be pumped or poured into restricted locations
- Makes repaired sections highly durable & compatible to parent concrete.
- Flowable mortar hence does not require compaction. Contains no chloride-based additive
- Controlled expansion system which compensates for shrinkage and settlement in the plastic state.

PACKING

Hi-Micro concrete is packed in 25kg Bags.

COVERAGE

1.3 m² per 25 kg pack at 10 mm thickness. Yield - 13.5 ltrs

APPLICATION

Surface Preparation: The surface must be clean, sound, dry and free from oil, grease, laitance and any loose particles etc. Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Apply Zinc Primer over the cleaned re-bars and allow it to dry before pouring of Hi-Micro concrete. Saturate the substrate with water to prevent absorption of water from the mixed material. For a dry substrate, it should be primed by applying one coat of Hi-Fix bonding Agent. Allow the bonding agent to reach tacky condition before pouring of mix concrete.

Mixing: Use Mixer for mixing of Hi-Micro concrete. Charge 85-90 % of clean & potable mixing water (3.75 to 4 liters per 25 kg bag) and 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 minutes to form a homogeneous, free flowing, uniform & lump-free mix.

Application: Pour the mixed Hi-Micro concrete into a watertight shuttering. Cure the repaired concrete for minimum 7 days before removing the shuttering or alternatively use Hi-Cure Curing Compound for curing.

STORAGE

Store tightly sealed Bags at room temperature.

PRECAUTIONS & LIMITATIONS

Hi-Micro concrete can applied in section up to 100 mm depth. For thickness more than 100 mm, addition of pre-calculated aggregates may be required. Strictly follow water-powder ratio as specified. Ensure that the shuttering is 100% watertight. Ensure full exposure of reinforced steel. Consult structural engineer if the diameter of rebar is reduced by more than 20% than the original diameter. Replacement or provision of additional steel shall be done in consultation with structural consultant.

STANDARD COMPLIANCE

HI-MICRO CONCRETE complies with **IS 2250 1981** (Reaffirmed 2000).

This Product is Formulated and Labeled and Commercial use only

For Best Results and Safest Usage, User is Specialty Directed to Consult.

Product Warranty: All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct, HIBOND warrants its products to be free of mfg.Defects and that, at the time and place of shipment, our material will meet current published physical properties when applied within HIBOND'S directions and tested in HIBOND'S standards. HIBOND'S facility is limited to replacement of material found to be defective. As HIBOND has no control over the use to which others may put its products. It is recommended that the product be tested to determine if suitable for a specific application and / or our information is valid in particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, applications and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.