

MICROCON-1000

FREE FLOWING MICRO CONCRETE

DESCRIPTION:

Microcon-1000 is a one component, free flowing micro concrete, suitable for repairs to all kinds of concrete structures. It 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 developed and so formulated that it can be used to reinstate large sections of concrete or recommended to be used where access is difficult or complex reinforcements do not allow the use of conventional methods.

ADVANTAGES:

- ✓ Highly pumpable
- ✓ Very low permeability
- ✓ Chloride free
- ✓ Excellent bonding to concrete surfaces
- ✓ High early strength
- ✓ Reduces shrinkage

AREA OF APPLICATION:

Repair of damaged reinforced concrete elements like beams, columns, wall, etc. where access is restricted and compaction is not possible. It is also used for jacketing of RCC columns to increase load-taking capacity (strengthening of a vertical members). Also it can be used to repair large sections of damaged/spalled concrete.

SPECIFICATIONS:

Appearance	Grey Powder
Chloride content	Nil
Compressive strength	
7 days	35 N/mm ²
28 days	>50 N/mm ²
Tensile strength (7 days)	6 N/mm ²
Flexure Strength	12N/mm ²
Water permeability (24hrs)	0.3%
Coverage	1.5 m ² per 25 kg pack at 10 mm thickness Yield - 13.5 ltrs

PREPARATION:

Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Light shot blasting is highly recommended. Apply CONRUST for rust free bars. Apply EP-ZINC-PRIMER over the cleaned re-bars and allow it to dry before pouring MICROCON-1000. 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 EPOXYBOND-600. Allow the bonding agent to reach tacky condition before pouring of mix concrete.

MIXING:

Charge 4 litres (90% of clean water) per 25 kgs bag of MICROCON-1000 in a vessel. Start addition of MICROCON-1000 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.

METHOD OF APPLICATION:

MICRONCON-1000 can be applied by method of pouring or pumping to the desired surfaces. The repaired concrete should be cured for minimum 7 days before applying MICRONCON-1000.

SAFETY PRECAUTIONS:

Protective gear such as gloves and goggles should be worn when handling the product. Treat any splashes to the skin or eyes with fresh water immediately. Should the product be accidentally swallowed, do not encourage vomiting, but call for immediate medical assistance. Ensure that the container is available for medical attendant to examine any relevant instructions and content details.

PACKING:

Available in 25kgs bag.

WARRANTY CLAUSE: *The product incorporated and sold is without Warranty expressed or implied, including warranty of Merchantability and fitness for use of this material and upon condition that purchaser shall make the own test to determine the suitability and quality of such products for their particular purpose. The user assumes all risks of use and handling, whether or not in accordance with any statement of the supplier. Supplier's liability if any, for any action arising out of the material being supplied shall be limited to only replacement of material.*