



TECHNICAL DATA SHEET

ARKA MICROCRETE- CEMENTITIOUS MICRO-CONCRETE

Description

ARKA MICROCRETE is a ready to use dual shrinkage compensated dry powder, requiring only the addition of clean water to produce a free flowing dimensionally stable micro concrete. Arka Microcrete is engineered designed for reinforcement of structural sections of concrete such as jacketing, enhancement of build ups and many confined areas which are difficult to access with towels.

Areas of Application

- Repair of damaged / spalled concrete structures such as columns, beams, floors and where access is restricted and compaction is not possible.
- For jacketing of RCC columns, slabs / beams to increase load-bearing capacity.
- Pile head repairs.
- Repairs to marine structures in fenders, partition walls etc.
- Cooling towers large spans of spalled concrete

Technical Parameters

Sl. No	Test Parameters	Result
1	Bulk Density (Kg/m ³) Dry Wet	1772 1981
2	Compressive Strength @3 day @7 day @28 day	22.8 39.2 53.1
3	Change in Volume	NIL

Surface Preparation

- Concrete surface should be sound, stable, clean and free from laitance, paint, oil, grease, and any residual mould release agents and curing compounds. The Metal surfaces should be free from any rust, scaling, cleaning can be carried out with suitable methods like by using wire brush, water jetting, mopping, etc.
- Defective concrete surfaces must be cut back to a sound base and ensure to exposed key aggregates on surface 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.

Mixing Instructions

- Mixing ratio: 25 Kg bag required 3.25 to 3.75Kg of portable water.
- Mix full bag of Arka Microcrete in a forced action pan mixer, or with a helical paddle attached to a low speed (300-600 rpm) mixer for 3 to 5 minutes until a flowable consistency is achieved.
- Pour 3Kg of water in cleaned bucket and start adding of Arka Microcrete slowly with continuous mixing. After complete addition of powder Mix homogeneously for 3 to 5 minutes until flowable consistency is achieved.
- Add balance quantity of water & again mix for another 2-3 minutes to form a homogeneous, free flowing, uniform & lump-free mix.

Foamwork

The forms must be of good quality, several hours prior to placing, the concrete substrates should be saturated with clean water and ensure no ponding water on reapplied surface. The shuttering has to be proper without any gaps or loose materials to ensure nil leakages during placing Arka Microcrete usages.

Application Method

Saw cut the edges of repair area to minimum 15 mm to avoid feather edging. The prepared surface should be sprayed with water to achieve SSD condition before erecting shuttering. The minimum temperatures must be maintained during application and for at least 24 hours thereafter for optimum curing of the product. The formwork should be removed after 1-3 days.

Yield

Yield – 12.7 Ltrs. at W/P ratio of 0.14

Supply

25 kg Bag



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