



ISO 9001:2008
FM54275

CICO MICROCRETE

HIGH STRENGTH MICRO CONCRETE FOR REPAIR

DESCRIPTION CICO MICROCRETE is a specially prepared ready-to-use grey powder which requires addition of water only at job site. To produce free flowing and semi fluid/plastic high strength concrete which has micro fine aggregate and ability to penetrate into the recesses of concrete members behind the reinforcement of the structure under repair.

USES CICO MICROCRETE is used for conventional repair of honey combed area and to fill recesses of broken concrete structure. In fact, it is used as effective and permanent repair to all types of concrete structures. CICO MICROCRETE is of particular interest to specialist repair contractor, local authority of maintenance division, military agencies, air port, road and port authorities. CICO MICROCRETE is most useful for repair and strengthening of concrete beams and columns.

- FEATURES**
- *Non – shrink and stabilised volume.*
 - *High early strength. It provides strength of main structural member or in excess within 24 hours only.*
 - *It does not produce any cracks along the line of old and build-up concrete section.*
 - *Good Bond. It achieves an excellent bond with parent concrete*
 - *Produces highly impermeable concrete to water and protects the reinforcements from corrosion*
 - *Normal curing as it is done for any other concrete.*
 - *Pocket up to 100 mm can be filled in one application.*
 - *Specially selected and graded micro fine aggregate, fillers and a range of additives ensure optimum density and durability.*

TECHNICAL DATA

	Appearance	Grey powder
CICO MICROCRETE required for one cubic metre, in kg		1800 ±100
Requirement of water for 50 kg (one bag) of powder		6-9 Litres
	Fresh mixed density, kg/m³	2250
Typical compressive strength, kg/cm², 3days		300
	7days	450
	28days	550
Typical flexural strength, kg/cm², 28 days		60
	Shrinkage	Nil

METHOD OF APPLICATION

Surface Preparation Surface to be repaired or cavity to be filled shall be cleaned sound and free from any deleterious materials like oils, grease etc. Weak portion of concrete should be cut back till sound surface is available. Damp down the surface of old concrete or soak

with water for over night and then remove excess water to get saturated surface dry (SSD) before pouring **CICO MICROCRETE**.

Application

Mix water to the powder in the ratio from 0.14 to 0.18 depending upon the consistency required and then pour in the forms/shutters. Gaps in the shutter/form should be effectively sealed with masking tape to ensure that leakage of fluid material does not take place through joints. Where the repaired surface needs to be plastered hack the surface immediately after removal of the shutters forms curing may be carried out as usual with wet hessian cloth or **CICO CUREFREE**. Where the width of the gap is more than 75 mm, 10 mm down coarse aggregate can be used in the range of 25-50% by weight of **CICO MICROCRETE** depending on the site conditions.

STORAGE

Keep it in a dry place.

SHELF LIFE

12 months if kept unopened, sealed condition.

PACKING

In 50 kg HDPE bag.

**HEALTH
SAFETY**

& Alkaline powder. Handling should be done accordingly. Non-toxic, non-flammable

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