



RAZON ENGINEERING COMPANY PRIVATE LIMITED

660, Taboot Street, P.O.Box No.49, PUNE-411001 [India] Ph:26130791, Telefax: 26130017
E-mail: razonengg@gmail.com, Website: www.razonengg.com



AN ISO 9001-2015 COMPANY MICRO CRETE BSF 419 LC

Razon Microcrete BSF 419 LC is cementitious, non- shrink general purpose micro-concrete developed specially for concrete repair works in structures, where it is difficult to compact the mortar by conventional methods.

It is a ready to use, factory prepared blend of cementitious materials, high grade inert fillers polymers to improve the properties and shrinkage compensating systems which provides a free flowing, non shrink high strength micro-concrete.

Micro-crete finds applications in:-

- Repairs to concrete structures, spalled concrete, potholes etc.
- Repairs to concrete pavements on internal roads, industries, highways etc.
- Joints between masonry and door frames,
- Repairs to areas where compaction of mortar is difficult or not possible.

Method of Use:-

The area to receive the micro-concrete treatment must be cleaned with compressed air. The surface to receive the micro-concrete must be sound and should have a texture to aid the keying of the micro-concrete with the substrate. If formwork is used to restrain the micro-concrete, it must be coated with **Razon Shutter Coat SC 17000** for a clean release. Any reinforcement must be free from rust/scale deposits, MS reinforcements may be cleaned with **Razon Metal Clean 101** few hours before pouring Micro-crete. Prior to pouring Micro-crete BSF 419 LC, the surface of the void must be made damp, and excess water must be removed.

Micro-crete BSF 419 LC may be mixed traditionally by hand in a tray, for large pours, a concrete mixer may be used. Addition of about 3-3.4 ltrs of clean water to one bag Micro-crete BSF 419 LC produces flowing micro-concrete, capable to be poured into the most difficult areas without compaction.

This Micro-crete BSF419 LC may be poured / pumped into the void and be allowed to harden. The exposed surface of Micro-crete must be minimal to avoid loss of moisture from the surface. In extreme conditions, the surface must be kept damp by a wet hessian cloth.

Typical hardening details are provided below:-

Compressive strength (in N/mm ² at 30 ⁰ C)			
24 hours	72 hours	7 days	28 days
10	30	40	50

Micro-crete BSF 419 LC is designed to perform for a maximum depth of 100 mm. If deeper pours are required, use of selected size aggregates available as RAZON'S "Grits 120" is recommended in the proportion of 1: 0.5 :: Micro-crete BSF 419 LC : Grits 120.

In this event, the water balance must not be disturbed, and hence it is advisable to use the grits in SSD condition. This water balance shall not negatively effect the strength of the modified micro-concrete and shall increase the strength by about 10% at all ages.

Packing

Micro Crete BSF 419 LC is available in 20 kg hermetically sealed bags.

PRODUCT DATA		
No	Characteristics	Property
1	Consistency	Dry powder
2	Water content per 20 kg bag	Approx 3.3 ltr
3	Compressive strength at 28 days	50 MPa
4	Flexural Strength at 28 days	> 4 N/mm ²
5	Coefficient of Thermal Expansion	Similar to that of Concrete
6	Plastic Density at 25 ⁰ C	2100 -2300 kg/m ³
7	Presence of Chlorides	Nil
8	Shelf life	6 months if stored in air tight packing
9	Packing	In 20 kg bags

Other Products :

Concrete Admixtures
Concrete curing compounds
Foaming agent for CLC blocks
Bonding agent / Masonry mortar for AAC/ CLC Blocks
Tile adhesives for Form-finish Concrete
Tile grouts
Gypsum based finishing putty
Accelerators for cement mortars
Plaster admixture for plaster with "Crushed Sand"



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable