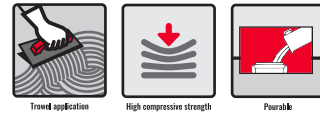


SAMCRETE® MC

MICRO-CONCRETE (HIGH STRENGTH)



DESCRIPTION:

- SAMCRETE® MC is a ready-to-use dry powder, requiring only the addition of water and produces a high strength micro-concrete with free-flowing and non-shrinking properties. It is a mixture of specially processed cement, carefully graded fine aggregate and additives. Additives impart controlled expansion characteristics and reduce water consumption. The very low water / cement ratio ensures high early and ultimate strengths.

GENERAL SPECIFICATIONS:

- **Grain size** : 0-3 mm
- **Water content (%)** : 15-19
- **Linear expansion (maximum %)** :
Free: 0.20
Restrained : 0.12
- **Time for expansion (after mixing)**:
Start: 20 minutes
Finish: 120 minutes
- **Yield (50 kgs dry grout)** : 25 litres slurry

ADVANTAGES:

- Gaseous expansion system compensates for shrinkage problems and maintains its original volume during curing.
- Control expansion ensures surface contact after setting.
- Develops exceptionally high ultimate strength combined with dense impermeable structure.
- Provides trouble-free performance.
- Facilitates rapid installation and early operation of plant.
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion. This grout also imparts high frost, fire and oil resistance.

CURING:

- Curing should be started immediately after 6 hours from the time of placements of grout.
- Cure for minimum seven days by ponding water or with wet hessian cloth.
- Cover top and stray holes / openings of restraint formwork with wet sacks for minimum seven days.

RECOMMENDED APPLICATIONS:

- Rehabilitation of load bearing components like beam, columns etc
- Repair of marine structures, water

CONSULT OUR PRODUCT APPLICATION DEPARTMENT (PAD) IN CASE OF ANY DIFFICULTY OR FOR TECHNICAL ASSISTANCE

SAMROCK products are guaranteed for the performance of material and manufacture.
The details given here are based on our laboratory and field observations and as such as construed to be reliable. But we shall not accept responsibility for any work carried out with our material as we do not have control over other ingredients, workmanship and field conditions. This data sheet is subject to change in view of constant research and development being undertaken in our laboratories. Customers are advised to contact SAMROCK for the latest version.

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METHOD OF USE:

- Mix dry grout with recommended quantity of water for minimum 3 minutes.
- Water quantity per bag of 30 kg grout SAMCRETE® MC:
Flowable: 4.125 litres
Trowellable: 4.0 litres

PRODUCT DATA:

Form	Powder-grain mix (fillers)										
Base	Cement										
Bulk density	2170 kg/m ³										
Controlled expansion	Commences : 20 minutes Finishes : 150 minutes										
Compressive strength (kg/cm²) W/P 0.165 at 30°C, flowable	<table border="1"><thead><tr><th>Age (days)</th><th>Consistency</th></tr></thead><tbody><tr><td>1</td><td>24</td></tr><tr><td>3</td><td>40</td></tr><tr><td>7</td><td>55</td></tr><tr><td>28</td><td>65</td></tr></tbody></table>	Age (days)	Consistency	1	24	3	40	7	55	28	65
Age (days)	Consistency										
1	24										
3	40										
7	55										
28	65										
Chloride content	Nil										
Colour	Grey										
Curing	7 days (minimum)										
Caution	Restrict mixing to quantities, which can be placed in 10 to 15 minutes.										
Storage	In dry and close place										
Safety	Non-toxic and non-flammable										
Packing	25 kg HDPE bags										

SURFACE PREPARATION:

- Clean the concrete base (like bolt pocket) of dirt, debris, oil and grease etc.
- Wet the surface thoroughly.
- Remove all excess and free water.

PLACEMENT:

- Place or pour grout mix quickly and continuously through holes or from one side only.
- Spread and compact by rodding, only if required.
- Do not place or pour micro concrete from two or more sides for good ensured quality.