

Easy to use durable micro-concrete

PRODUCT

webertec MC1 is a durable mono-component micro concrete made of selected sand and aggregates, special cement, green binders and additives. Its special formulation, flowable consistency and convenient packaging makes it easy to mix and to place in congested areas.

webertec MC1 is recommended where high compressive strength, high thicknesses and durability are required.

webertec MC1 is specially formulated to produce a shrinkage compensating micro concrete that can be applied in thicknesses ranging from 30 mm to 200 mm per layer although greater thickness up to 300 mm can be practiced depending on the design of the repair job and level of steel reinforcement.

SCOPE OF USE

- Casting foundations for industrial equipment and heavy machinery
- Column, slab, beam and footing or enlargement
- Concrete repair in large areas
- Form and pump applications
- Void filling applications
- Pile head repair

ADVANTAGES

- High strength
- Easy to place:
 - Flowable
 - Pumpable
 - Large thickness in 1 layer
- Easy to mix one-component product using a hand drill
- Durable
- Green

APPLICABLE STANDARDS

BS EN 1881 part 116
BS EN 1881 part 118
BS EN 1881 part 122
ASTM C 1202

CHARACTERISTICS

Appearance	Grey powder
Grain Size	0 to 5 mm
Fresh density	Approx. 2.37
Compressive Strength @ 28d BS 1881 part 116	> 80 MPa
Flexural Strength @ 28d BS 1881 part 118	> 13 MPa
Rapid Chloride Permeability	Very Low to low



إنبعاثات أقل لثاني أكسيد الكربون

-36% CO₂

LOW CO₂ EMISSION

PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
-	25 Kg	25 Kg	25 Kg	-	25 Kg	-	25 kg

*Results obtained at 22 °C by mixing one bag of 25 Kg with 2.125 liters of clean water. Compressive strength results using 10 x 10 cm cubes

*Properties listed above are only based on controlled laboratory samples and tests: Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

webertec MC1 may be applied on sound concrete, masonry, rock or similar materials. Remove damaged concrete and laitance by chipping with a pick or cold-chiseling to get a rough surface. The surface must also be free from any trace of grease or oil. Saturate the surface with water by copiously spraying just before application, and if possible, 6 hours before application as well.

PRODUCT PREPARATION

The flowable micro-concrete is obtained by mixing a 25kg bag of webertec MC1 with 2.125 to 2.5 liters of clean water. The amount of water used depends on the workability required. Add the powder to the water and mix for 3 minutes. To ensure a homogeneous and uniform mix, an electric mixer must be used. Do not mix with other hydraulic binders. The use of additives is prohibited.

PRODUCT APPLICATION

webertec MC1 should be poured in a single continuous

operation and slowly to prevent entrapment of air. The product should be placed within 30 minutes shortly after mixing. **webertec MCI** can be used for thickness up to 20 cm although greater thicknesses may be achievable depending on the repair geometry. Ideal application temperature is between +5 °C and 35 °C.

Form and pump application:

- Formwork must accommodate the mass and pressure of the repair material. Design of the forms should follow standard practice for cast-in-place concrete construction with a minimum pressure of 14 psi (100 kPa).
- Vertical surface repair start at the lowest point, filling in a manner that prevents air entrapment. The sequence is continued until the cavity is filled.
- Overhead placements are accomplished by starting at an extremity of the surface and proceeding in a fashion similar to vertical placements.
- Repairs involving soffit and vertical faces of members can be combined into one placement. In this case, placement begins at the lowest elevation. After placing **webertec MCI**, cure the exposed surface by one the following methods:
- Apply cold clean water 3 times a day during 3 days
- Apply a curing compound like **weberad cure Y 20** or **weberad cure WT**.

YIELD

25 kg bag + 2.5 L of water give a volume of around 11.5 liters.

STORAGE

12 months after manufacturing date in original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention. The product is non-flammable.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application

are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

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PG:249A