



OVERVIEW

CONCREP MC is a high-strength, shrinkage-compensated, free-flowing micro concrete. It requires on-site addition of water to provide free-flowing concrete. The material is based on Portland cement, graded aggregates, and special fillers and is applied and cured as per specification. **CONCREP MC** will produce a free-flowing micro concrete free from bleeding and segregation. **CONCREP MC** maintains good handling characteristics while mixing with water.

PROPERTIES

- Shrinkage compensated
- Very good bond to Concrete substrates without primer
- Low alkali cement minimizes the danger of alkali-silica reaction
- Self-compacting nature eliminates honeycombing
- Displaces air without vibration

Appropriation:

- The product is ideally suitable for vertical and horizontal repair of concrete where hand or trowel application is difficult
- **CONCREP MC** is suitable for pile head reprofiling and general void filling
- It can be applied for large-volume repairs of order 40mm to 150mm
- Due to the plastic nature of **CONCREP MC**, it can be used as grout and poured.

Placing :

The mixed material should be placed within 30 minutes of mixing. It can be simply poured or pumped onto the repair area and filled the cavity to the required level. No vibration is required. After leveling concrete a slightly hardened surface may be finished to the desired texture.

Curing :

Start curing **CONCREP MC** immediately after finishing and formwork is stripped with clean water.

Precautions:

- Not recommended to be used @ temperature under 5oc
- Should not mix with any other product
- Ponding method of curing is not suitable

Product Management:

Surface Preparation :

Concrete substrate to be repaired should be sound, clean, and uncontaminated. The formwork should be rigid and tight to prevent loss of material and have properly sealed faces to ensure no water is absorbed from the repair material. Saw cut or cut back the extremities of the repair locations to a depth of at least 10mm to avoid Feather edging and to provide a square edge. After sawing cutting chip concrete down to a sound base using light pneumatic chipping tools or chisel hammer. The surface should be made free of oil or grease. Any corroded steel in the repair area should be cleaned well and remove all loose and corrosion deposits. The concrete

Priming :

Prior to placing **CONCREP MC**, substrate the surface with water for several hours, and immediately before placing, prime the substrate

Mixing :

One bag (25kg) of **CONCREP MC** requires 2.75 to 3.15 liters of clean potable water. Mixing in a suitable-sized drum using an approved spiral paddle in a slow speed (400/500rpm) heavy-duty drill is recommended. Pour the required amount of water into the mixer followed by **CONCREP MC** for 3 minutes to get a homogeneous consistency mixture.

GRIPMIX provides an extensive range of products and services for most concrete and finishing needs. Please contact the GRIPMIX for Building Construction Materials Trading Co. LLC-Dubai for further information, samples, demonstrations and instructor services. The information presented in this leaflet is based upon laboratory research, as well as comprehensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on GRIPMIX's current state of knowledge and is intended to provide general information on GRIPMIX's products and their methods of use. The potential user is recommended to determine the suitability of GRIPMIX's suggestions and products before adopting them on a commercial scale.



Coverage :

12.8 liter per 25Kg/Bag

Packing and Storage:

CONCREP MC is available in 25 kg bags. **CONCREP MC** should be stored in cool, dry, and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures, and as per recommendations. In extreme tropical climates, the product must be stored in a cooled ambience. Excessive humidity and over-exposure to UV will result in the reduction of shelf life.

Health and Safety:

CONCREP MC contains no hazardous substances. As With all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing sleeve overalls, safety shoes, and face mask is recommended for maximum safety. Reseal all containers after use and ensure the product is stored as instructed on the safety section of the labeling. Treat any contact to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each **GRIPMIX** product.



TECHNICAL DATA

Standard Confirms to	ASTM C 387:77A Din 1048 & DIN 1045 Class B
Color and Appearance	Grey Powder
Density	1.65
Compressive Strength @ 28Days	75N/mm ²
Flexural Strength @28Days	12N/mm ²
Tensile Strength @ 28Days	> 5 N/mm ²
Bond Strength @28Days	< 26N/mm ²
Water Absorption	<2%
Pot Life @ 25oC	30min
Recommended Application thickness	10-50mm/ layer