

# PC Pour MC



High performance dual shrinkage compensating micro concrete for structural repairs

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## Product Overview

PC Pour MC is a high strength and high flow pourable micro concrete repair mortar for structural concrete repairs. It provides a high strength durable structural repair which is compatible with concrete substrate.

## Areas of applications

1. Extensive repairs of structural elements such as columns, beams, etc.
2. Repairs of structural members subjected to cyclic/repetitive loading.
3. Covering other structural members which help in strengthening of building.

## Properties

1. PC Pour MC is volumetrically stable, whether in wet condition or it is set. Hence it eliminates cracking tendency.
2. It is a single component, simple and easy-to-mix with water product, reducing further hassle. It also eliminates the need of further bonding agent
3. It is resistant to harsh chemicals, hence gives a longer life to the structures..
4. It reduces time for repairs as it is easy to place in any kinds of profiles

## Guidelines for Usage

**1. Surface preparation :** Concrete surfaces to be treated should be clean, dry and free from laitance. Sandblasting/high pressure waterjet blasting or mechanical wire brushing may be necessary. Cracks or damaged concrete surfaces should be exposed so that it can be covered while repairing.

If corroded reinforced bars are exposed, cut back the concrete at least 20 mm behind the reinforcing bars. Sandblast the rust area and coat the exposed metal bars with PC Zinc Primer to prevent further corrosion of reinforcement bars.

In case of formworks, the forms must be of good quality treated with a suitable chemical which help in smooth detachment. They should be provided with drain holes should be well braced to withstand the fluid pressure of the mortar until it hardens.

**2. Mixing :** Mix the contents of entire bag of PC Pour MC into a clean mixing container. Add clean water in the the proportion of 2.6 to 3 ltr per 20 kg of PC Pour MC. Then mix the contents slowly using a mixing paddle for 5 mins. until a flowing consistency is achieved.

**3. Application :** It is recommended to soak the surface to be treated in water at least for 2 hrs prior to the application of the PC Pour MC. It is suitable for placing in thicknesses of 25mm to 200mm. It should be poured into cracks or formworks until the voids are filled properly. Don't vibrate the PC Pour MC as it could lead to segregation. For repairs beyond 80mm to 100mm thickness extend PC Pour MC upto 20 kg of 5-12mm sized washed saturated surface

dry (SSD) graded low absorption, high density aggregates. For further discussion on application, kindly contact Mcrete technical representative.

**4.Curing:** After 1-3 days the formwork should be removed firmly and proper curing compound has to be applied.

## Coverage area

Each bag of PC Pour MC when mixed with 2.75 ltr of water yield 10 ltr.

## Packages available

PC Pour MC is available 20kg bags

## Storage and Shelf life

PC Pour MC should be stored away from direct sunlight and heat. It has 12 months shelf life when stored in original, dry and unopened packs.

## Safety Measures

PC Pour MC must be stored in dry place. Proper safety precautions and tools must be taken into consideration, i.e. wearing safety gloves, safety goggles, safety apron and nose masks, etc. Treat splashes to eyes and skin immediately. Clean the tools and equipments with sufficient water after application is over. For further queries related to application and safety precautions, please contact Mcrete technical representative.

## Technical data

Aspect	Grey powder
Water to powder ratio	0.15
<u>Days</u> 1 day 3 days 7 days 28 days	<u>Compressive strength</u> 15 Mpa 25 Mpa 35 Mpa 40 Mpa
Density	2.25 g/cc

For further clarifications Please contact on below address

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