

# PC Monotop Ultra



High performance overlay repair  
mortar

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## Product Overview

PC Monotop Ultra is a high performance self levelling, cementitious, non structural, polymer modified topping for re-levelling and refurbishing cementitious based floors or decks.

## Areas of applications

1. Parking decks, and ramps
2. Marine structures.
3. All types of pavements, floors and walkways
4. Curbs and gutters.
5. Refurbishing of old floors and fastrack industrial refurbishment
6. All types of self levelling refurbishments.

## Properties

1. PC Monotop Ultra forms strong, durable and wear resistant and thin overlay.
2. It is self levelling and self smoothing and hence reduces the effort of application.
3. It forms an excellent barrier for salts and water.
4. It cures rapidly.
5. It suitable for both internal and external use.

## Guidelines for Usage

**1. Surface Preparation:** Remove all grease, oil, dirt, laitance and foreign particles that could hamper proper adhesion. Laitance, moulds and

contaminants could be removed by mechanical means such as high speed water jet, grit blast or wire brush. Spalled concrete should be cut or chipped off and instead filled with PC Monotop Ultra and sand mix based mortar. If sealers, paint, polymer coatings or curing compounds are present on concrete substrate, remove with mechanical shot blasting equipment. The visible reinforced steel bars should be primed twice. using suitable primers.

**2. Mixing:** Mix a single bag of PC Monotop Ultra in a clean container with water in the ratio of 1:6.5 (water:powder) until a uniform lump free paste consistency is formed. Mix the entire contents using a slow speed mixing paddle for about 5 mins.

**3. Application:** PC Monotop Ultra can be either directly poured or pumped till desired thickness is obtained. Progress should be steady and even. Application should take place continuously into the preceding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle. The fresh wet topping can be rolled immediately with a suitable long spiked roller to release all air retained within the underlayment. Do not roll material that has been applied for more than 2-3 minutes. Do not add additional water to the surface during the finishing operation. Work material into place by floating or troweling. On large areas, use screed strips with a vibratory screeding to level.

**4. Curing:** Proper curing procedures should be adapted in order to ensure durability and quality

of repair. Do not use a solvent based curing compound on this product. Always re-establish floor and slab joints when using this product as an overlay.

## Dosage and measures

PC Monotop Ultra comes in a pre weighed packings. It is ready to mix and apply. Mix a 20 kg bag of PC Monotop Ultra with 2.5 -3.0 ltr of water. Please contact a Mcrete® technical representative for further advice.

## Packings available

PC Monotop Ultra is available in 20 kg bags.

## Coverage

A bag of PC Monotop Ultra will yield 0.01 m<sup>3</sup> with typical water requirement of 2.7 ltr.

## Storage and Shelf life

PC Monotop Ultra has 12 months shelf life when stored in original, cool, dry and unopened packs.

## Safety Measures

1. Clean tools and equipment immediately after the use.
2. Use proper safety equipments while mixing e.g. use of safety coats, safety goggle, gloves etc. Any eye contamination should be washed immediately with clean water and immediate medical attention sought.
3. Do not wet cure. Do not use a solvent based curing compound on this product.
4. Don't add admixtures or sand
5. Always use a complete units. Partial usage of unit may lead to variable results.
6. No heavy traffic has to be allowed until the product cures fully

For further information related to application and safety precautions, please contact Mcrete® technical representative.

## Technical data

| Aspect  | Grey cementitious powder           |
|---|------------------------------------|
| Mixed Density   | 2.08 - 2.10 g/cc                   |
| <u>Compressive strength</u><br>1 day<br>7 days<br>28 days | 17 MPa<br>29.7 MPa<br>40.5 MPa     |
| <u>Setting time</u><br>Initial set<br>Final set           | (1.5 - 2) hours<br>(2.5 - 3) hours |
| Foot Traffic  | Approximately 3 hours              |
| Pot Life  | 30 minutes                         |

For further clarifications Please contact on below address

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