

# PC Mortar Ultra HS



High Performance and High Strength  
Single Component Polymer Modified  
Repair Mortar

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## Product Overview

PC Mortar Ultra HS is a single-component, quick-setting, low shrinkage repair mortar formulated with unique polymers and fiber reinforcement. It is a high performance and high strength repair mortar mainly made for trowel-applied vertical and overhead repairs.

## Areas of applications

1. Vertical and overhead repairs
2. Resurfacing of damaged/spalled concrete
3. Marine structures, tunnels and dams
4. Parking structures & bridges
5. For all kinds of substructure and superstructure applications

## Properties

1. PC Mortar Ultra HS is a single-component product hence nullifies errors in mixing and handling
2. It has excellent resistance to extreme temperatures
3. It is a polymer modified with fiber reinforcement product.
4. It contains an integral corrosion inhibitor
5. Its low permeability helps protect rebar from corrosion.
6. High bond strength provides excellent adhesion.

## Guidelines for Usage

**1. Surface preparation (New concrete) :** The substrate to be treated must be sound and even, openpored, roughened and its surface should be made free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance must be removed by suitable means. The surface should be just damp. Any surface water on horizontal surfaces must be removed.

Any remaining plaster, render or other substances that could inhibit bonding must be removed back to the substrate. Gypsum, remains of wood or other foreign material must be removed by appropriate means. Loose pointing must be routed out and the substrate cleaned thoroughly.

**2. Priming:** Priming is usually not required until and unless the surface is porous and rough. In case of any doubt, the substrate should be primed with suitable primer. For more information, please contact an Mcrete® Technical Representative for assistance.

**3. Mixing:** Use a paddle type mortar mixer for all jobs. All materials should be in the proper temperature range of 20°C to 40°C. Add the appropriate amount of water, 3.40 to 3.80 ltr/bag into a clean mixing vessel, then add the dry product. Mix for 5 to 7 minutes until a uniform lumpfree paste is obtained.

**4. Application:** Apply at a thickness of 3 mm to 50mm for vertical walls and for overhead applications in a single stretch. If more than

50mm thickness is desired then mix baby chips (6-10mm size) at dosage of 30% of weight of material. Trowel into place and allow to reach

final set before the next lift. If additional lifts are required, score the surface of the placed mortar before it reaches final set.

**5. Finishing:** Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation.

**6. Curing and Sealing:** Curing is required. Wet curing can be applied for of 3 - 5 days.

## Coverage area

A 20kg of PC Mortar Ultra HS will cover approximately 1.0 m<sup>2</sup> when placed at an average depth of 13 mm.

## Packages available

PC Mortar Ultra HS is packaged in 20kg bags.

## Storage and Shelf life

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

## Safety Measures

1. Clean tools and equipment with water before the material hardens.
2. Do not use a solvent based curing compound on this product.
3. For optimum results, condition material to 18°C to 29°C at least 24 hours prior to use.
4. Use proper safety equipments while mixing e.g. use of safety coats, safety goggle, gloves etc.

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

## Technical data

Aspect	Coarse granular grey powder
Mixed density	2.00 - 2.10 g/cc
Compressive Strength	7 days - 50 MPa 28 days - 65 Mpa
Setting time	Approx. 30 minutes

For further clarifications Please contact on below address

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