

UC6 Technical Specifications

UC6 Multi-use Cementitious Mortar

UC6 is a multi-use cementitious mortar (concrete repair and or strengthening and fast hardener mix).

UC6 contains advanced Eco-friendly natural fillings.

UC6 can be used for repairing and filling concrete substrates partially or completely.

Standard Applications:

- 1- UC6 may be used for Repairing and improving the regularity of Light or Heavy Concrete Substrates, Internal or External, and filling the cracks and blowholes. May be used to correct level and line errors, uniform the surfaces prior insulation, and repairing falling or broken Structural construction stilt.
- 2- UC6 may be used for fast hardening and strengthening the resistance of concrete (increases the strength by 10%) especially in certain places where fast execution is required (Road works, bridges, tunnels, sewage systems, ...) it speeds up the hardening of concrete in 2 hours equivalent to 7 days of normal hardening if 20% of the cement powder weight is added to the mix. The speed of hardening can be decreased proportionally by decreasing the added quantity to the cement powder (minimum recommended quantity to be added is 5% of cement powder weight).
- 3- UC6 may be used to strengthen the concrete of the military barricades, the wave breakers and seaports.
- 4- UC6 is suitable for the snowy and icy places.

UC6 Properties:

- 1- High bond and adhesion to concrete, high compressive strength, anti-abrasive, and Anti-Algae.
- 2- Resistant to cracking and shrinkage with low absorption.
- 3- Resistant to concrete aging & chemicals, & Water Sealant.





UC6 Application Method:

- Clean and remove the puffed layers, dust and impurities on the maintained surface.
- Only mix with clean water (water quantities as per the desired mixture thickness) for filling the cracks and the blowholes (caused by the fast curing of the concrete in the warm weathers)
- As well as filling the holes of the shuttering connection bars in the sheer walls, and uniform the surface less than 5mm thick.
- Mix with Silica or clean thick sand in a proportion of 1kg Sand for 1kg of UC6 powder for maintaining areas 15mm thick.
- Mix with Silica or clean thick sand and 1cm aggregate in a proportion of 1/2kg Sand & 1/2kg aggregate for 1kg of UC6 powder for maintaining areas 3cm thick.
- Mix with Silica or clean thick sand and 2cm aggregate in a proportion of 1/2kg Sand & 1/2kg aggregate for 1kg of UC6 powder for maintaining areas above 5cm thick.

UC6 Mixing:

- Use clean water and clean mixing container.
- Add 20kg of UC6 powder to 6liters of water as an average mixture (more water can be added up to the desired mixture thickness)
- Mix manually for 2 minutes or for 1 minute using the electrical mixer.
- Make sure all the components are well mixed without any leftovers.
- Let the mixture to rest for 5 minutes after the mixing and before applying to enable the reaction of the components (till the air bubbles end)
- UC6 must not be applied in temperatures below +3° centigrade or above +47° centigrade.

UC6 Packing and Storage:

- UC6 is packed in Plastic bags 20 kg each.
- UC6 must be stored in a dry place away from sunlight and form the reach of Children.

UC6 is Odorless, Eco-friendly, Antibacterial, Non-flammable and Not Harmful. (Can be cleaned form the hands by clean water.)

