

CIS MICRO 661

FLOWABLE MORTAR FOR REPAIRS

PRODUCT CATEGORY: MICROCONCRETE

PRODUCT DESCRIPTION

CIS MICRO 661 is a ready to use micro concrete dry powder which requires only addition of clean water at site to produce a free flowing non shrink repair micro concrete. It is composed of good quality cement, properly selected aggregates & additives. It is used & designed for repairing of damaged reinforced concrete elements like columns, beams & structure where the areas are restricted or not easily accessible for proper placement of concrete using vibrator. CIS MICRO 661 has excellent flowability, workability & proper particle size to reach small & congested reinforcement.

FEATURES & BENEFITS

- Can be pumped or poured into restricted locations.
- Flowable - Flowable mortar hence does not require compaction.
- Shrinkage compensation – Controlled expansion system which compensates for shrinkage and settlement in the plastic state.
- Strength - Develops high initial and ultimate compressive strength.
- Moisture resistant - Offers excellent resistance to moisture ingress.
- Durability - Makes repaired sections highly durable & compatible to parent concrete.
- Thickness build up - Can be applied at 100 mm thickness at one stroke
- Chloride content - Contains no chloride based additive so prevents corrosion of reinforcement.
- Early reinstatement -Rapid strength gain helps in early reinstatement & removal of shuttering.

METHOD OF APPLICATION

1 SURFACE PREPARATION

Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc.

Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Light shot blasting is highly recommended. Apply CIS RUST REPAIR for rust free bars.

For Cathodic Protection, apply CIS ZINC COAT 411 over the cleaned re-bars and allow it to dry before pouring of CIS MICRO 661



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Saturate the substrate with water to prevent absorption of water from the mixed material. In case of a very old concrete substrate, it should be primed by applying one coat of CIS SUPER BINDER . Allow the bonding agent to reach tacky condition before pouring of mix concrete.

2 MIXING

Use PAN Mixer for mixing of CIS MICRO 661.

Charge 85-90 % of clean & potable mixing water (3.75 to 4 liters per 25 kg bag) to a PAN Mixer.

Start addition of Micro Concrete powder slowly under continuous mixing. Keep mixing for 2 minutes. Add balance quantity 15 -20% of mixing water & again mix for another 2-3 minutes to form a homogeneous, free flowing, uniform & lump-free mix.

3 APPLICATION

Pour or pump the mixed CIS MICRO 661 into a watertight shuttering.

Cure the repaired concrete for minimum 7 days before removing the shuttering or alternatively use Dr. Fixit Curing Compound for curing. Precautions & Limitations

CIS MICRO 661 can applied in section upto 100 mm depth. For thickness more than 100 mm, addition of pre-calculated aggregates may be required. Consult technical team for more details.

Strictly follow water-powder ratio as specified.

Ensure that the shuttering is 100% watertight. Ensure full exposure of reinforced steel.

Consult structural engineer if the diameter of rebar is reduced by more than 20% than the original diameter. Replacement or provision of additional steel shall be done in consultation with structural consultant

THEORETICAL COVERAGE

1.3 m² per 25 kg pack at 10 mm thickness

SHELF LIFE & STORAGE

Shelf life is six months from the date of manufacturing. Store at cool & dry place in unopened condition.