

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.

CIS SILICAFUME 29KF

DENSIFIED SILICA FUME

PRODUCT CATEGORY: CONCRETE ADDITIVES

PRODUCT DESCRIPTION

CIS SILICAFUME 29KF is a concrete additive in powder form based on silica fume technology. It is used as a high effective additive for the production of high quality concrete

CIS SILICAFUME 29KF is used in :

- High performance concrete
- Structural concrete
- Precast concrete
- Shot Crete applications And other fields of concrete construction where great demands are required on the durability and quality of fresh and hardened concrete.

CHARACTERISTICS / ADVANTAGES

CIS SILICAFUME 29KF contains extremely fine ($0.15\mu\text{m}$) latently reactive silicon dioxide. The presence of this substance gives following advantages:

- Improved internal cohesion
 - Water retention and increased density when set
 - Improved pumping properties
 - Improved durability
 - Improved water tightness
 - Improved surface finish
 - Increased resistance to abrasion
 - Reduced chloride diffusion
 - Improved ultimate strength
- CIS SILICAFUME 29KF contains no chloride or other potentially corrosive substances.

PACKING

20 KG BAG

RECOMMENDED DOSAGE

3%-15% by weight of cement. The correct dosage for the required properties must be determined by preliminary testing. For optimum result in concrete, always use in conjunction with a CIS superplasticizer or retarder.



CIS SHUTTERING P 600

MOULD RELEASE AGENT

PRODUCT CATEGORY: DEMOULING AGENT

PRODUCT DESCRIPTION

CIS SHUTTERING P 600 IS excellent de shuttering oil is specially formulated for construction industry. It is a careful blend of high performance based mineral oils and additives with excellent de moulding chemicals. Further, these oils have optimum viscosity and prevent the formation of rust & sludge. We offer these shuttering oil in different quantity at industry leading prices.

APPLICATION

CIS SHUTTERING P 600 IS used straight from the drum and stirring or mixing is required. Shuttering oil is applied by spraying gun, roller, brushes prior to pouring aerated concrete and is recommended for use as a concrete mould release agent with the protection mould from rust.

DILUTION OF CIS SHUTTERING P 600

This is diluted with water in ratio of 1:4 (1 part of water based shuttering oil and 4 part of water). This is very economical water based shuttering oil. This gives better coverage area due to less viscosity. We are leading manufacturer of high quality water based shuttering oil.

BENEFITS

- Offers very good surface finish in concrete
- Excellent moulding release characters
- Non toxic
- Increased wooden plank life / metal shutter life

COVERAGE

20-40 sq.mtrs / ltr in ideal condition



CIS SHUTTERING P 600

MOULD RELEASEING AGENT

PRODUCT CATEGORY: DEMOULIND AGENT

SPECIFICATION

Viscosity @ 40c	20.0-24.0
Colour	Light brown to brown colour
Flash point ~c , min	160C
Pour point ~c ,min	-3