

# Fully Colored Concrete System

## F.C.C.S.

### Execution Method Statement

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2

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- 1- Batching Plant
  - Concrete components shall be measured and batched in a modern reputable plant and equipment with all necessary scales, bins, mixers...etc. The plants manufacturer manuals shall be presented to the Client (upon request) to monitor all operation procedures including material weighing, mixing speed, mixing time... etc.
  - The quantities of cement, fine aggregates (Sand) and the various sizes of coarse aggregate shall be measured by weight, pigments should be provided in pre-weighed bags.
  - The quantity of water shall be measured and monitored for every batch and the admixtures shall be precisely measured by weight by means of automatic dosing equipment.
  - All measuring equipment shall be maintained in a clean serviceable condition and the accuracy of the measuring equipment shall be maintained within the tolerances described in the ASTM C94, and scales calibration should be available upon request.
- 2- Mixing
  - Concrete ingredients shall be mixed in a central mixer and batches shall be loaded in truck agitators. A minimum mixing time of 30sec/batch should be attained.
- 3- Fibers and Pigments
  - Fibers and color pigment shall be added to the mixer during the mixing process.
- 4- Transporting
  - The volume of the batches in the mixer or the truck agitator shall not exceed the manufacturer's rated capacity. Truck agitators or truck mixers operating at agitating speed only, shall be used for transportation of ready mixed concrete.
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## 5- Application

### General

The following requirements shall be fulfilled by the client side at the job site:

- 5.1 Sub base should be at least 200mm thick of compacted granular material (pitrun gravel or sand 95% compaction), over which the concrete slab 12cm thick (or more) should be cast.
- 5.2 Cement could be used in the sub-base if necessary with the correct moisture content for maximum compaction.
- 5.3 Compacted sub-base in layer to ensure 100mm layers for maximum compaction.
- 5.4 A permanent electrical source 220V, for washing machines and saw cutters.
- 5.5 A permanent clean water source of a good pressure and a good drainage.

## 6-Batching, Mixing and Transporting

### 6.1. Batching

Concrete materials shall be measured and batched in modern plant and equipment with all necessary scales, bins, mixers...etc. The plants manufacturer manuals shall be presented to the Client (upon request) to monitor all operation procedures including material weighing, mixing speed, mixing time. etc.

The quantities of cement, fine aggregates and the various sizes of coarse aggregate shall be measured by weight, pigments should be provided in pre-weighed bags.

The quantity of water shall be measured and monitored for every batch and the admixtures shall be precisely measured by weight by means of automatic dosing equipment.

All measuring equipment shall be maintained in a clean serviceable condition and the accuracy of the measuring equipment shall be maintained within the tolerances described in the ASTM C94, and scales calibration should be available upon request.

### 6.2. Mixing

Concrete ingredients shall be mixed in a central mixer and batches shall be loaded in truck agitators. Fibers and color pigment shall be added to the mixer skip during the mixing process.

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### 6.3. Transporting

The volume of the batches in the mixer or the truck agitator shall, in no case, be greater than the manufacturer's rated capacity.

Truck agitators or truck mixers operating at agitating speed only, shall be used for transportation of ready mixed concrete.

## 7- Application

### 7.1 General

The following requirements shall be fulfilled by the client side at the job site:

7.2 Sub base should be at least 200mm thick of compacted granular material (pitrun gravel or sand 95% compaction), over which the F.C.C.S. concrete slab 12cm thick (or more) should be cast.

7.3 Cement could be used in the sub-base if necessary with the correct moisture content for maximum compaction.

7.4 Compacted sub-base in layer to ensure 100mm layers for maximum compaction.

7.5 A permanent electrical source 220V, for washing machines and saw cutters.

7.6 A permanent clean water source of a good pressure and a good drainage.

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