

# CWC® COMPAQ 2100

## High performance admixture and compaction aid for wet semidry/no-slump concrete products

### Description

COMPAQ 2100 is an innovative multi-purpose **superplasticizer** based on **Modified PCE**, specially developed for pavers blocks with low cement content. The product is suitable to produce pavers, tiles manufactured by wet mix method. At the same time, **COMPAQ 2100** accelerates the strength development and reduces the cycle time whilst the appearance is maintained or even improved. The unique principle of action on the cement grain is that **COMPAQ 2100** fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

### Indicative characteristics

Form	: Light Amber Liquid
Specific Gravity	: 1.02 ± 0.02
Air entrainment	: ≤ 1.5 % over control mix.
pH	: ≥ 6
Chloride Content	: Nil, as per BS - 5075 (Part-I)

\* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

### Standard Compliance

**COMPAQ 2100** complies with IS9103:1999, BS 5075 Part 3 and with ASTM C494 Type 'A' and 'E' admixture depending on dosage used.

### Advantages:

**COMPAQ 2100** offers substantial benefits to the precast and semi dry precast concrete producers:

- Efficient dispersion and distribution of cement, additives, and pigments
- Improved movement of the concrete through the machine
- Accelerated hardening and high early strength
- Early de moulding
- No adverse effect on ultimate strength
- Sufficient water reduction
- Improved surface finish
- Improved water tightness
- More economic concrete mix designs
- Increased ease in finishing concrete

### Domains of application

COMPAQ 2100 is especially suitable for any application where fast early strength development plays a major role, or is of crucial importance within 6 to 8 hours:

- Precast and Prestressed concrete elements
- Block paving (grey/coloured)
- Cement tiles (grey/coloured)
- Paving flags
- Kerb stones Edging and other items for garden and landscape design
- Building blocks and bricks

### DISPENSING

COMPAQ 2100 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticizing effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of COMPAQ 2100 to dry aggregate or cement is not recommended. Automatic dispensers are available. Thorough mixing is essential and a minimum mixing cycle, after the addition of the COMPAQ 2100, of 30-40 seconds for forced action mixers is recommended.



## Dosage

Optimum dosage of COMPAQ 2100 should be determined with trial mixes. As a guide, a dosage range of 400ml to 800ml per 100kg of cementitious material is recommended as a starting point. Local production conditions and material types may necessitate dosages outside this range.

\*\* Higher dosage can be used if agreed & allowed by clients/consultants

## Limitations

Excessive water addition may cause bleeding or segregation.

If frozen and / or if precipitation has occurred, COMPAQ 2100 may be used after thawing slowly at room temperature and after intensive mixing

## Compatibility

COMPAQ 2100 is compatible with other CWC admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

COMPAQ 2100 is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and micro silica.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times

## Regional offices

### MUMBAI:

Office No - 616/617, J K Chambers  
Sec-17, Vashi, Navi Mumbai-400703  
Maharashtra, INDIA.

### CHENNAI:

494/1B, 2B, Thiruverkadu main Road, Ambattur  
Industrial Estate Chennai – 600095 Tamil Nadu, India

## Packaging

20, 200 Kgs Barrel & bulk in 10 KL tanker

**Shelf Life:** If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 12 months.

Freezing point: Approximately -2°C.

## Precautions

Not to be stored at high temperatures for long periods. Should be protected from frost. It is Non-toxic and formulated from chemicals which present no fire or health hazards. Spillages should be washed down immediately with water.

## Safety

Before use, refer to the Material Safety Data Sheet.

The MSDS is available on [www.cwcchemicals.com](http://www.cwcchemicals.com)

## Additional information

The CWC range of associated products include high strength cementitious, epoxy grout, polyester resin-based mortar, Resin anchoring systems. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

