

CWC®SR 1000

Set Retarding Admixture

Description

CWC®SR 1000 slows down the hydration of cement by momentarily blocking the surface of the cement particles and principally retards time of initial setting. It does not increase the length of time between the beginning and end of setting. Hence, concrete retarded with CWC®SR 1000 will harden normally as soon as the setting starts and early and ultimate strengths can be obtained. It is particularly suitable for Ready mix concrete market with stable workability over a longer period.

Indicative characteristics

- Form : Pale Yellow 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)
- Compatibility : Mainly with PPC/OPC + FA

ADVANTAGES :

CWC®SR 1000 improves retention of workability to a great extent. It has no surface tension effects. Its use in concrete does not modify the consistency of concrete in any way. When used simultaneously with a high range water reducing super plasticizer e.g. CWC®RoboHybrid, CWC®RoboTech range. CWC®SR 1000 gives longer open time for concrete without much retardation and is particularly suitable to obtain high performance concrete. Cold Joints too can be avoided by using higher dosage of this product during mass concreting. It can reduce the heat of hydration during mass concreting and improves ultimate strength. It can also be used for production of Retarded Mortar.

Domains of application

- All cement types esp. PPC/OPC +FA
- Ready Mix Concrete for multi pack solution
- Hot weather concreting
- Extended workability retention
- Cold Joints, mass concreting

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.

Method of use

Dosage: Optimum dosage can only be established after trials, taking into account the rheological characteristics and the required mechanical performances. Rate of addition is generally in the range of 0.2-1.0% by wt of cementitious material. For maximum dispersion throughout the mix, CWC®SR 1015 should be added to the mixing water only. Should the product be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed, for 1 minute per m³ of concrete.

Guideline Followed:

IS: 9103-2007 and ASTM C-494-2010(Type-D).

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

Packaging

- 230 Kgs Barrel & bulk in 10 KL tanker

Safety

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.cwcchemicals.com.