

CHRYSO® Optima K9316



High Range New Generation Super Plasticizing Admixture

Description

CHRYSO® Optima K9316 is a new generation superplasticizer based on POLYCARBOXYLIC ETHER. It allows concrete to achieve targeted workability, while reducing water / cement ratio. It is developed to maintain fresh concrete workability without compromising setting time. CHRYSO® Optima K9316 is especially adapted for Ready Mix Concrete as well as job site application which require early and long term strengths.

Indicative characteristics

- Form : Light Amber Liquid
- Specific Gravity : 1.10 ± 0.02
- Air entrainment : ≤ 1.5 % over control mix.
- pH : ≥ 6
- Chloride Content : Nil, as per BS - 5075 (Part-I)
- Compatibility : OPC, PSC, GGBS, PPC.

Advantages :

Thanks to specifically designed molecular structure of CHRYSO® Optima K9316 which offers workability retention without use of slump retainer. This also enables the concrete manufacturer to produce cohesive, low viscous concrete with desired workability retention. Thereby green concrete can be hauled for longer (if required) distances and still be placed conveniently around congested reinforcement. It reduces thixotropy of the mix without risk of segregation. High water reduction minimizes shrinkage or cracking yielding better surface finish.

For a given concrete mix, keeping the cement consumption and workability constant, substantial reduction in the amount of mixing water (up to 30%) can be achieved, to produce concrete of high compressive strength. Alternatively, for the same concrete mix, keeping everything else constant, a *definite economy in cement content*, ranging from 15% to 25%, can be achieved.

Domains of application

- All cement types
- Pumped concrete
- Workability retention as desired
- Ready mix concrete as well as job site application
- Concrete for early and long term strengths
- High performance concrete

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 0.5-2.0% by wt of cementitious material. For maximum dispersion throughout the mix, CHRYSO® Optima K9316 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, and then at low speed (with a minimum 3 minutes at each speed)

Guideline Followed :

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

Shelf Life: If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 6 months.

Packaging

- 225 Kgs Barrel & bulk in 10 KL tanker

Safety

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