

CHRYSO® Optima K9314



New Generation “ROBUST” Admixture for Self-Compacting Concrete



Description

CHRYSO® Optima K9314 is a new generation multi range Admixture based on polycarboxylate along with expertise hybrid polymers technology. To provide;

- A wide scale of dosage.
- Good water reduction at low dosage while higher water reduction can be achieved with increase in dosage.
- Better flow with low Thixotropy & good retention.

Indicative characteristics

- Form : Light Amber Liquid
- Specific Gravity : 1.11 ± 0.02
- Air entrainment : ≤ 1.5 % over control mix.
- pH : ≥ 6
- Chloride Content : Nil, as per BS - 5075 (Part-I)
- Compatibility : OPC, Fly Ash, PPC and SRC.

Advantages :

Thanks to specifically designed molecular structure, CHRYSO® Optima K9314 has a great flexibility; thanks to its large scale of dosage, it can be used in wide range of concrete with desired fluidity & workability retention. At equal plasticity, and after reducing mixing water:

- Concrete compacity is improved.
- Capillary absorption is reduced.

Depending on dosage, a relative increase of mechanical strength is observed at 24 hours & is a great advantage too for high volume GGBS/fly ash mix. For any mix, keeping the cement consumption and workability constant, substantial reduction in the amount of mixing water can be achieved, to produce high performance & high strength concrete. **This also enables the concrete manufacturer to produce cohesive, low viscous “SCC concrete” with desired workability retention which helps manufacturer to pump concrete easily in vertical as well as horizontal direction & 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.**

Domains of application

- All cement types.
- **High performance Self Compacting Concrete.**
- Pumped concrete with desired retention.
- Job site as well as Ready mix concrete application.
- It is **“ROBUST” to fines & moisture variation.**
- Also suitable for High volume GGBS/Fly Ash Mix.
- Applicable in wide grade of 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 0.6 % - 2.0 % by wt of cementitious material. For maximum dispersion throughout the mix, CHRYSO® Optima K9314 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.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the “Application” paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website www.chryso.com

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