

CHRYSO® Premia S514



High Range New Generation Super Plasticizing Admixture

Description

CHRYSO® Premia S514 is a new generation superplasticizer based on POLYCARBOXYLIC ETHER. CHRYSO® Premia S514 is particularly recommended for precast concrete requiring high short and long-term compressive strengths.

Indicative characteristics

- Form : Light Amber Liquid
- Specific Gravity : 1.095 ± 0.02
- Air entrainment : ≤ 1.5 % over control mix.
- pH : ≥ 6
- Chloride Content : Nil, as per BS - 5075 (Part-I)
- Compatibility : OPC, PSC, SRC & PPC.

Advantages :

Thanks to specifically designed molecular structure, CHRYSO® Premia S514 enables the concrete manufacturer to produce fresh concrete with dynamic properties that improve filling ability, develops high early mechanical strength, reduces time of demoulding, lifting of segments, and pre-stressing or saves energy by decreasing steam curing temperature. Works even at a very low water / cementitious ratio. When used in specially formulated concrete, gives hard concrete a first class finish. To achieve significant retention **CHRYSO®Tard SRC80/ CHRYSO® Optima 100** or our latest invented new generation workability extender range **CHRYSO®Equalis 100/200** are highly recommended along with this product depending on the application.

Viscosity of the concrete can be substantially decreased by using CHRYSO®Optima 100 along with our CHRYSO® Premia S514.

For any mix, keeping the cement consumption and workability constant, substantial reduction in the amount of mixing water (up to 35%) 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 20% to 30%, can be achieved.

Domains of application

- All cement types
- Self Consolidating Concrete
- Pre-stressed, Precast Concrete
- Concrete with moderate to high SCM
- Segmental construction
- High early strength
- Very high to Ultra high performance concrete application

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 0.4-2.0% by wt of cementitious material. For maximum dispersion throughout the mix, CHRYSO® Premia S514 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-A&F).

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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