

CHRYSO® Delta D514



New Generation Early Setting Super Plasticizing Admixture.

Description

CHRYSO® Delta D514 is a new generation polycarboxylate ether based multi range Super plasticizer based on expertise hybrid polymers technology. To provide;

- A wide scale of dosage
- A moderate water reduction
- Early setting
- Homogenous concrete

Indicative characteristics

- Main Ingredient : Modified Polycarboxylate
- Appearance : Brownish liquid
- Specific Gravity : 1.015 ± 0.01
- Air entrainment : ≤ 1.5 % over control mix.
- pH : > 6
- Chloride Content : Nil, as per BS - 5075 (Part-I)
- Compatibility : OPC, PSC, PPC, and SRC.

ADVANTAGES :

Thanks to specifically designed molecular structure, CHRYSO® Delta D514 has a great flexibility; thanks to its large scale of dosage, it can be used in great range of concrete with desired fluidity & workability retention. To achieve further retention CHRYSO® Tard SR / CHRYSO®Tard SRC80 / CHRYSO®Fluid Optima 100 may be used along with this product. It allows optimization of dosage of cement in order to obtain a specific class of resistance. At equal plasticity, and after reducing mixing water: It allows optimization of dosage of cement in order to obtain a specific class of resistance. At equal plasticity, and after reducing mixing water:

- Concrete compacity is improved,
- Capillary absorption is reduced
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Depending on dosage, a relative increase of mechanical strength is observed at 24 hours along with early setting & is a great advantage over Old generation available Admixtures in the market.

For any mix, keeping the cement consumption and workability constant, substantial reduction in the amount of mixing water (up to 15%) can be achieved or use of dosage upto certain limit can act as a high range superplasticizer, to produce concrete of high compressive strength. Alternatively, for the same concrete mix, keeping everything else constant, a *definite economy in cement content*, can also be achieved.

Domains of application

- All cement and cementitious types.
- Single admixture for wide range of concrete.
- Precast and pre stressed Concrete, Cement Tiles
- Recommended for Fly Ash bricks/Paving Blocks etc.
- Concrete using moderate to high SCM

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 0.5-2.5% by wt of cement and cementitious material.

For maximum dispersion throughout the mix, CHRYSO® Delta D514 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-494-1981(Type-E).

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

Packaging

- 200 Kgs Barrel & bulk in 10/20 KL tanker

Safety

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