

CHRYSO® HS 1411



Water Reducing Plasticizing Admixture

Description

CHRYSO®HS 1411 is a water reducing plasticizer based on modified sulfonated polynaphthalene. It acts on:

- the dispersion of Cementitious particles in concrete
- the cohesion of fresh concrete
- Workability retention properties.

The use of CHRYSO® HS 1411 is particularly recommended for Jobsite concrete requiring homogenous concrete without any segregation, bleeding which should have stable workability with time. It also acts as integral water-proofer for concrete.

Indicative characteristics

- Form : Brown liquid
- Specific Gravity : 1.215 ± 0.02
- Air entrainment : ≤ 1.5 % over control mix.
- pH : ≥ 6
- Chloride Content : Nil, as per BS - 5075 (Part-I)
- Compatibility : Mainly PPC.

ADVANTAGES :

CHRYSO®HS 1411 produces cohesive concrete for jobsite application normally for grades of concrete between M20 to M35. For an equivalent plasticity, after reducing quantity of mixing water (up to 20%) thanks to this admixture; concrete is denser with less capillary action. Depending on the dosage, produces concrete with an increased compressive strength. It has a relatively weak retarding action, retains workability for 1 to 1½ hour and does not affect hydration of cement. CHRYSO® HS 1411 is well compatible with most of the major PPC brands available in India. Reduction in concrete permeability protects against water migration & corrosion of embedded steel inside the concrete esp. important for liquid retaining structures. For the same concrete mix, keeping everything else constant, *a definite economy in cement content*, ranging from 10% to 15%, can be achieved.

Domains of application

- All cement types, esp. PPC
- Pumped Concrete
- Regular Reinforced Concrete
- Liquid retaining structures

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® HS 1411 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, IS: 2645 and ASTM C-494-2010(Type-G).

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

Packaging

- 250 Kgs Barrel & bulk in 10/15 KL tanker

Safety

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