

CHRYSO® Optima S781

High range water reducing Super plasticizing admixture

Chryso
Concrete
Solutions

11/10/2024

DESCRIPTION

CHRYSO® Optima S781 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 S781 is especially adapted for Ready Mix Concrete and flow concrete which improves early and later strengths.

- Ø All cement and cementitious types
- Ø Pumped concrete
- Ø SCC Concrete
- Ø Workability retention
- Ø Ready mix concrete
- Ø Concrete for highly reinforced structures
- Ø High performance concrete

BENEFITS

CHRYSO® Optima S781 enables the concrete manufacturer to produce cohesive, low viscous concrete with long workability retention. Thereby green concrete can be hauled for longer distances and still be placed conveniently around congested reinforcement. High water reduction minimizes shrinkage crack to make better surface finish. For a given concrete mix, keeping the cement consumption and workability constant, substantial reduction in the amount of mixing water can be achieved, to produce concrete of high compressive strength. Alternatively, for the same concrete mix, keeping everything else constant, a definite reduction in cement content, can be achieved.

INDICATIVE INFORMATION

Product Nature	liquid
Color	Light brown
Lifetime	12 months
Cl ⁻ ions content	≤ 0,200 %
Specific gravity	1,100 ± 0,020
pH	7,00 ± 1,00

METHOD OF USE

Optimum dosage can only be established after trials, considering the rheological characteristics and the required mechanical performances. For maximum dispersion throughout the mix, CHRYSO® Optima S781 should be added to the mixing water only. When the product to 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)

Dosage :

Rate of addition is generally in the range of 0.3-1.5% by weight of Cement and cementitious material.

Implementation :

IS: 9103-2018 and ASTM C-494-1981(Type-G).

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.

SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.