

CHRYSO® Optima K554

High range water reducing Super plasticizing admixture

DESCRIPTION

CHRYSO® Optima K554 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 K554 is especially adapted for Ready Mix Concrete and fluid concrete which require short and long term high strengths.

Domains of application

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

BENEFITS

Thanks to specifically designed molecular structure, CHRYSO® Optima K554 enables the concrete manufacturer to produce cohesive, low viscous concrete with long workability retention. Reduces thixotropy of the mix without risk of segregation. High water reduction minimizes shrinkage or cracking yielding 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 economy in cement content, can be achieved.

INDICATIVE INFORMATION

Product Nature	liquid
Color	Light Amber
Lifetime	12 months
Cl ⁻ Ions content	≤ 0,200 %
Specific gravity	1,085 ± 0,020
pH	7,00 ± 1,00

METHOD OF USE

For maximum dispersion throughout the mix, CHRYSO® Optima K554 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: 9103-2007 and ASTM C-494-1981 (Type-G).

PRECAUTIONS

- Protect from heat.
- Protect from humidity.

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.