TECHNICAL DATA SHEET

Chryso Concrete Solutions

11/10/2024

CHRYSO®Optima K8328(H)

High range water reducing Super plasticizing admixture

DESCRIPTION

CHRYSO®Optima K8328(H) 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. Especially adapted for Ready Mix Concrete and fluid concrete which require high short and long term 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

CHRYSO®Optima K8328(H) 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. 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 brown
Lifetime	12 months
Cl^- Ions content	≤ 0,200 %
Specific gravity	1,110 ± 0,020
pH	7,00 ± 1,00

METHOD OF USE

For maximum dispersion throughout the mix, **CHRYSO®Optima K8328(H)** 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)Optimum dosage can only be established after trials, taking into account the rheological characteristics and the required mechanical performances.

Dosage :

Rate of addition is generally in the range of 0.4 - 2% by wt of Cement and cementitious material.

Implementation :

Guideline Followed : IS: 9103-2007 and ASTM C-494-1981(Type-G).

PRECAUTIONS

- Stir before use
- Store in tightly closed containers.
- Do not mix with other products without advice from manufacturers.
- Do not dilute in water.
- 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.

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