

CHRYSO® Optima 1100

New Generation Superplasticizer

DESCRIPTION

CHRYSO® Optima 1100 is a new generation superplasticizer based on polycarboxylate and modified phosphonate. Its specially designed molecular structure, enables the concrete manufacturer to produce cohesive concrete, with long workability retention.

CHRYSO® Optima 1100 has been developed to maintain fresh concrete workability without compromising the setting time.

BENEFITS

- CHRYSO® Optima 1100 is specially designed to manufacture concrete with 100% Manufactured Sand or Quarry Sand.
- CHRYSO® Optima 1100 allows concrete with an important workability to be obtained, while reducing the water/cement ratio.
- The dispersion properties of CHRYSO® Optima 1100 allow the user to optimize the cement content when a specified mechanical strength is required.
- On account of all these characteristics, CHRYSO® Optima 1100 is a superplasticizer which is particularly adapted for used on construction sites and in the ready-mix concrete industry.
- Desired workability of the concrete can be achieved with CHRYSO® Optima 1100 while reducing the water/cement ratio and keeping the pumpability of the concrete.

SPECIFICATIONS

Product Nature	liquid
Color	Brown black
Lifetime	12 months
Cl ⁻ ions content	≤ 0,010 %
Specific gravity	1,090 ± 0,020
pH	5,00 ± 2,00

Cl⁻ ions content:

nil to EN 934 and BS 5075 It does not contain any purposely added calcium chloride or other chloride based components
testttttttt
Brown

PACKAGING

- IBC 1000L
- 200 L drum

METHOD OF USE

- A 1.0% dosage of the product of the weight of cement is commonly used.

CHRYSO® Optima 1100 can be added to the water before mixing the concrete However, it can be added to the concrete after mixing.

Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance if using outside recommended dosage ranges.

Dosage :

0.10 to 2.00 kg for 100 kg of cement

Dosage rates of CHRYSO® Optima 1100 are dependent upon desired concrete performance characteristics and variables including cement quantity and chemistry, concrete temperature and curing conditions.

Consumption :

CHRYSO® Optima 1100 is compatible with all types of Portland cement, class C and F fly ash, slag, microsilica , calcium chloride, fibers and approved air entraining admixtures.

CHRYSO® Optima 1100 is recommended for all concrete mixes where water reduction, increased cementitious material, high workability retention and very high strengths are required.

1. All types of cement
2. Ready-mix concrete
3. Concrete of humid, plastic or fluid consistency
4. Concrete with long workability retention
5. Compatible with Micro silica, GGBS and Fly Ash.
6. Pumped concrete
7. Hot Weather concrete
8. Extended workability concrete
9. High performance concrete, ultra high-performance concrete

PRECAUTIONS

- Do not mix with other products without advice from manufacturers.
- In case of prolonged storage, this product may slightly settle. Before use, rehomogenise product.

SAFETY

TECHNICAL DATA SHEET

CHRYSO® Optima 1100

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Chryso
Concrete
Solutions

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

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However, it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be conducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs. www.chryso.lk
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