

CHRYSO Optima SL 1145

New Generation Superplasticizer

DESCRIPTION

CHRYSO®Optima SL 1145 is a new generation superplasticizer based on polycarboxylate and modified phosphonate.

Thanks to its specially designed molecular structure, CHRYSO®Optima SL 1145 enables the concrete manufacturer to produce cohesive, low viscous concrete with long workability retention.

CHRYSO®Optima SL 1145 has been developed to maintain fresh concrete workability without compromising the setting time.

BENEFITS

- CHRYSO®Optima SL 1145 is specially designed to manufacture concrete with 100% Manufactured sand or blend of R/Sand in the concrete mix design.
- CHRYSO®Optima SL 1145 allows concrete with an important workability to be obtained, while reducing the water/cement ratio.
- The dispersion properties of CHRYSO®Optima SL 1145 allow the user to optimize the cement content when a specified mechanical strength is required.
- On account of all these characteristics, CHRYSO®Optima SL 1145 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 SL 1145 while reducing the water/cement ratio and keeping the pumpability of the concrete.

SPECIFICATIONS

| | |
|------------------------------|---------------|
| Product Nature | liquid |
| Color | Clear-Yellow |
| Lifetime | 12 months |
| Cl ⁻ ions content | ≤ 0,010 % |
| Specific gravity | 1,075 ± 0,020 |
| pH | 5,00 ± 2,00 |

Does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

PACKAGING

- 200 L drum
- IBC 1000L

METHOD OF USE

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

CHRYSO® Optima SL 1145 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 :

0.05 to 3.0 kg for 100 kg of cement.

Dosage rates of CHRYSO® Optima SL 1145 are dependent upon desired concrete performance characteristics and variables including cement quantity and chemistry, concrete temperature and curing conditions

Consumption :

CHRYSO®Optima SL 1145 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
10. Flowable concrete
11. White or pale concrete

PRECAUTIONS

- Do not mix with other products without advice from manufacturers.

SAFETY

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

TECHNICAL DATA SHEET

CHRYSO Optima SL 1145

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Chryso
Concrete
Solutions

14/10/2024

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
531/1 Negombo Road, Seeduwa, Sri Lanka Tél.:+94 11 225 1504 Fax:+94 11 225 1508 e-mail:info@chryso.lk

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