



CHRYSO® Optima 1170S

High range water reducing Super plasticizing admixture

DESCRIPTION

CHRYSO® Optima 1170S is a new generation high range water reducing admixture based on patented CHRYSO® phosphonate technology.

CHRYSO® Optima 1170S is formulated specifically to maintain long workability retention and decrease mix stickiness for superior placeability and finishing.

CHRYSO® Optima 1170S exclusive technology allows for extreme easiness of use, low viscosity and robustness.

CHRYSO® Optima 1170S enables the production of self-levelling / flowable concrete.

BENEFITS

- Provides extreme workability retention, but not retardation, depend on the dosage, cementitious content / type and mix design.
- Provides increased slump and flowability without increased water content.
- Improves finish, no cold joints due to extended workability properties, reduces cracking and shrinkage.
- Improves concrete quality by reducing the water-cement ratio for a given degree of workability.
- Proprietary molecule reduces concrete viscosity (stickiness) allowing for easier placement, better finish and enhanced pumpability.
- Improves concrete chemical resistance and durability.

FIELDS OF APPLICATION

- Ready-mix concrete
- Concrete for highly reinforced structures
- All cement types
- Workability retention
- Piles

CHARACTERISTICS

Product Nature	liquid
Color	Light brown
Lifetime	12 months
Specific gravity	1,060 ± 0,020
pH	4,80 ± 2,00

PACKAGING

- 1000 L IBC
- 200 L drum
- 20 L bucket

METHOD OF USE

- A 1.0% dosage of the product of the weight of cement is commonly used.
- This product must be added to the mixing water.
- 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 of 3 minutes, at each speed).
- A 1.2% dosage of the product to the weight of cementitious is commonly used.

Dosage :

0.5% - 2.0% by weight of cementitious materials

PRECAUTIONS

- Protect from frost.
- Avoid prolonged exposure to high temperatures.
- Should the product freeze, it will recover its properties. After thawing, an efficient agitation is necessary until the product is entirely homogeneous again.

NORMATIVE AND REGULATORY INFORMATION

- This product conforms to NF 085 certification, which technical specifications are those applied in the non harmonised part of NF EN 934-2.
- This product conforms to CE marking. The appropriate declaration can be found on our internet site.
- This product conforms to ASTM C 494 Type A, F and G, and BSEN 934 2

SAFETY

CHRYSO® Omega 1170S is not considered dangerous to handle. Please refer to the material safety data sheet for additional information.

TECHNICAL DATA SHEET



**Chryso
Concrete
Solutions**

16/10/2025

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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.ph

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