

CHRYSO® Optima 100

High Range Water Reducing Admixture
Rheology enhancer



DESCRIPTION

CHRYSO® Optima 100 is a new generation superplasticizer high range water reducer based on modified phosphonate.

CHRYSO® Optima 100 is formulated specifically to maintain high workability and decrease mix stickiness for superior placeability and finish.

CHRYSO® Optima 100 exclusive technology allows for extreme easiness of use and robustness.

CHRYSO® Optima 100 is particularly adapted to the pumping of concrete over long distances.

BENEFITS

- Provides extreme workability retention.
- Provides increased slump and flowability without increased water content.
- Improves finish, placement and pumpability of concrete.
- 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.
- Reduces cracking and shrinkage.
- Improves concrete chemical resistance and durability.

PACKAGING

- IBC 1000L
- Bulk delivery on request

FIELDS OF APPLICATION

CHRYSO® Optima 100 is recommended for all concrete mixes where significant water reduction, improved cementitious material performance (more Mpa/kg), improved finishing and enhanced slump retention characteristics are desirable.

CHRYSO® Optima 100 is especially recommended for use in ready-mixed concrete applications where low stickiness and superior workability retention characteristics are required.

- All cement types
- Precast
- Use of Supplementary Cementitious Materials
- Concrete for highly reinforced structures
- High Performance Concrete - Very High Performance Concrete
- Ready-mix concrete
- Extended workability retention
- Hot weather concreting
- Pumped concrete
- Self consolidating concrete
- etc

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INDICATIVE INFORMATION

Product Nature	Liquid
Color	Pale yellow
Lifetime	9 months
Specific gravity	1,055 ± 0,020
pH	4,00 ± 2,00

Cl⁻ ion content: nil to EN 934 and BS 5075.

METHOD OF USE

0.3 to 5.0 kg for 100 kg of cement.

- The optimum dosage of this product can only be established after trial tests, taking into account the rheological characteristics and the required mechanical performances of the concrete.
- It can be added: - either within mixing water, or at the end of the mixing cycle (extra mixing time) - or gradually: part in the water before mixing, part during the mixing cycle.
- 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).
- Dosage rates of **CHRYSO®Optima 100** are dependent upon desired concrete performance characteristics and variables including cement quantity and chemistry, concrete temperature and curing conditions.
- Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance if using outside recommended dosage ranges.

PRECAUTIONS

- Protect from frost.
- Use at a temperature above 0° C.
- Should the product freeze, it will recover its properties. After thawing, an efficient agitation is necessary until the product is entirely homogeneous again.

Compatibility:

- CHRYSO®Optima 100** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- CHRYSO®Optima 100** is compatible with other CHRYSO admixtures when used in the same concrete mix, but should be added to the mix separately and must not be mixed together prior to addition.

NORMATIVE AND REGULATORY INFORMATION

- This product conforms to CE marking. The appropriate declaration can be found on our internet site.
- 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 ASTM C 494, and BSEN 934-2

SAFETY

CHRYSO®Optima 100 is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.