

CHRYSO®Optima 100

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HRWR – Extreme Rheology Enhancer

■ Features

CHRYSO®Optima 100 is a new generation high range water reducing admixture based on CHRYSO patented technology: APP.

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

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

CHRYSO®Optima 100 is manufactured under rigid quality control measures to provide uniform, reliable results.

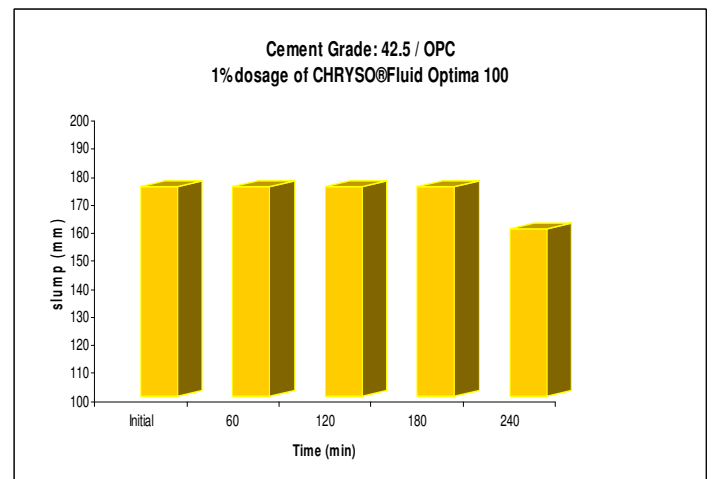
■ Benefits

- 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

■ Areas 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.



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Characteristics:

- Physical state: liquid
- Color: milky, off white
- Density: 1.05 ± 0.02
- pH: 5 ± 2
- Cl^- ion content : nil to EN 934 and BS 5075
- Na_2O equiv.: < 1.0%

CHRYSO®Optima 100 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:

- IBC: 1000 L
- Drums: 200 L

Standard specifications:

Conforms to ASTM C 494 type A & G

■ Directions for use:

Dosage

CHRYSO®Optima 100 is recommended for use at a dosage rate of 0.3 to 5 Kg per 100 Kg of cement.

The optimum dosage of **CHRYSO®Optima 100** can only be established after trial tests, taking into account local conditions, materials and specification requirements.

CHRYSO®Optima 100 can be added at the concrete plant or on the job site. In case of addition in a mixing truck, it is recommended that the concrete be mixed at high speed for 1 minute per cubic yard of concrete (with a minimum of 6 min.).

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

Compatibility:

CHRYSO®Optima 100 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 100 can be used in all white, colored, and architectural concrete. For best results, each admixture must be dispensed separately into the concrete mix.

Precaution:

CHRYSO®Optima 100 may freeze at temperatures below $2^\circ C$. Although freezing does not harm **CHRYSO®Optima 100**, precautions should be taken to protect it from freezing.

If **CHRYSO®Optima 100** should happen to freeze, thaw and reconstitute with mechanical agitation. This product must be stored in plastic containers, except those manufactured with PVC. Shelf life: 9 months.

■ Safety:

CHRYSO®Optima 100 is not considered dangerous to handle. Please refer to the material safety data sheet for additional information.

About CHRYSO:

Worldwide leader for cement and concrete additives for over 70 years, **CHRYSO** has been designing, producing, specifying and delivering its added-value solutions to the construction professionals with outstanding innovation and quality service. As a result, **CHRYSO's** brand and products have been associated with the most prestigious and demanding construction projects over the globe.

Manufactured under License by,



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