

# CHRYSO® Optima 100

New Generation Superplasticizer

## DESCRIPTION

CHRYSO®Fluid Optima 100 is a new generation high range water reducing admixture based on Chryso patented technology: CHRYSO®Fluid Optima 100 is formulated specifically to maintain high workability and decrease mix stickiness for superior placeability and finish. CHRYSO®Fluid Optima 100 exclusive technology allows for extreme easiness of use and robustness. CHRYSO®Fluid 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, 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.

## SPECIFICATIONS

Product Nature	Liquid
Color	Colourless to yellow
Lifetime	12 months
Cl <sup>-</sup> ions content	≤ 0,010 %
Equivalent Content Na <sub>2</sub> O	≤ 1,00 %
Specific gravity	1,050 ± 0,200
pH	4,00 ± 2,00

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

- liquid Density: 1.05 ± 0.02
- pH: 5 ± 2
- Cl<sup>-</sup> ion content : nil to
- EN 934 and BS 5075 Na<sub>2</sub>O equiv.: < 1.0%

Milky, off white

## PACKAGING

- IBC 1000L
- 210 L drum

## METHOD OF USE

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

### Dosage :

0.4 to 5.0 kg for 100 kg of cement

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

### Consumption :

CHRYSO®Fluid 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.

## SAFETY

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