

# Chryso® Optima 345 G

New Generation, high range water reducing/  
superplasticizing admixture

## DESCRIPTION

**Chryso® Optima 345 G** is a new generation superplasticizer high range water reducer, based on patented innovative polymers.

**Chryso® Optima 345 G** is especially recommended for self compacting or high flow concrete requiring high early age and long term strengths, whilst maintaining the workability.

**Chryso® Optima 345 G** enables the production of concrete with very low water to cement ratios.

When used in low water to cement ratio or high fines content concrete such as Self Compacting Concrete (SCC), **Chryso® Optima 345 G** allows for outstanding placeability and finishing properties.

## BENEFITS

- Enhances the workability retention of concrete in hot climates.
- Maintain fresh concrete workability without compromising the setting time.
- Thanks to its specifically designed molecular structure, **Chryso® Optima 345 G** enables the concrete manufacturer to produce cohesive, low viscous SCC with long workability retention.
- Low sensitivity to concrete segregation and bleeding.
- The dispersion properties of **Chryso® Optima 345 G** allow the user to optimise the cement content when a specified mechanical strength is required.

## PACKAGING

- IBC 1000L
- Bulk delivery on request

## FIELDS OF APPLICATION

**Chryso® Optima 345 G** is recommended for all concrete mixes where low water content, improved cementitious material performance, high workability retention and very high strengths characteristics are desirable.

- All cement types
- Precast elements
- Concrete for highly reinforced structures
- High Performance Concrete - Very High Performance Concrete
- Prestressed concrete
- Ready-mix concrete
- Slabs
- Extended workability retention
- High early and ultimate strength
- Hot weather concreting
- Pumped concrete
- Self consolidating concrete
- etc

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## INDICATIVE INFORMATION

Product Nature	liquid
Color	Pale yellow
Lifetime	12 months
Water solubility	Soluble
Specific gravity	1,086 ± 0,020
pH	5,00 ± 2,00

## METHOD OF USE

0.2 to 3.0 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 345 G** 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 345 G** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- **Chryso® Optima 345 G** 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 ASTM C 494, and BSEN 934-2

## SAFETY

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