

# CHRYSO®Delta CQ 21

New Generation, high range water reducing/  
superplasticizing admixture



## DESCRIPTION

**CHRYSO®Delta CQ 21** is a new generation superplasticizer based on modified polycarboxylate and synthetic polymers particularly recommended for readymix concrete and civil engineering construction sites.

Thanks to its specifically designed molecular structure, **CHRYSO®Delta CQ 21** enables the concrete manufacturer to produce cohesive, low viscous concrete with long workability retention.

**CHRYSO®Delta CQ 21** intends to create a high water reduction and/or an increased period of workability retention. It allows the manufacture of concrete with a long workability retention without prejudicial set retarding effect. Thus, it can be used in a wider concrete range.

## BENEFITS

- **CHRYSO®Delta CQ 21** allows concrete with the required workability to be obtained, while reducing the water/cement ratio.
- Enhances the workability retention of concrete in hot climates.
- Improves concrete pumpability and finishing quality.
- The dispersion properties of **CHRYSO®Delta CQ 21** 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®Delta CQ 21** 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
- Use of Supplementary Cementitious Materials
- Concrete for highly reinforced structures
- High Performance Concrete
- Ready-mix concrete
- Extended workability retention
- Hot weather concreting
- Plastic or fluid concretes
- Pumped concrete
- Self consolidating concrete
- etc

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### INDICATIVE INFORMATION

<b>Product Nature</b>	liquid
<b>Color</b>	Pale yellow
<b>Lifetime</b>	12 months
<b>Specific gravity</b>	1,036 ± 0,020
<b>pH</b>	4,00 ± 2,00

Cl<sup>-</sup> ion content: nil to EN 934 and BS 5075.

### METHOD OF USE

0.5 to 2 litres 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®Delta CQ 21** 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®Delta CQ 21** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- **CHRYSO®Delta CQ 21** 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 Type F and G, and BSEN 934 2

### SAFETY

**CHRYSO®Delta CQ 21** is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.