

### CHRYSO®Fluid CQ 557

High range water reducing Super plasticizing admixture



#### DESCRIPTION

**CHRYSO®Fluid CQ 557** is a superplasticizing admixture based on polynaphthalene synthetic polymers.

It promotes excellent dispersion of particles in concrete, resulting in a major improvement in the workability.

It produces high quality pumpable concrete with extended workability retention.

The mechanical strength of flowing concrete is not changed when using **CHRYSO®Fluid CQ 557**.

#### BENEFITS

- Enhances the workability retention of concrete in hot climates.
- High water reduction ability.
- The dispersion properties of **CHRYSO®Fluid CQ 557** allow the user to optimise the cement content when a specified mechanical strength is required.
- As the particles are highly dispersed, the hydration of the binder is enhanced, resulting in a substantial water reduction and an increase in both early age and ultimate compressive strengths.

#### PACKAGING

- IBC 1000L
- Bulk delivery on request

#### FIELDS OF APPLICATION

**CHRYSO®Fluid CQ 557** 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
- etc

## TECHNICAL DATA SHEET

### CHRYSO®Fluid CQ 557

High range water reducing Super plasticizing admixture

#### INDICATIVE INFORMATION

<b>Product Nature</b>	liquid
<b>Color</b>	Dark brown
<b>Lifetime</b>	12 months
<b>Specific gravity</b>	1,250 ± 2,000
<b>pH</b>	8,00 ± 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®Fluid CQ 557** 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®Fluid CQ 557** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- **CHRYSO®Fluid CQ 557** 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 D and G, and BSEN 934-2.

#### SAFETY

**CHRYSO®Fluid CQ 557** is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.