

# CHRYSO®Plast CQ 241

Water reducing and retarding admixture

### DESCRIPTION

**CHRYSO®Plast CQ 241** is a water reducing plasticizer based on blended synthetic polymers particularly recommended for ready mix concrete and civil engineering construction sites.

**CHRYSO®Plast CQ 241** has been specifically formulated to promote dispersion of particles in concrete, resulting in a major improvement in workability.

**CHRYSO®Plast CQ 241** optimizes the quantity of cement required to obtain a given concrete compressive strength. For an equivalent plasticity and after reduction of mixing water:

- the concrete is denser;
- reduced capillary action.

### BENEFITS

- Enhances the workability retention of concrete in hot climates
- Water reduction ability
- The dispersion properties of **CHRYSO®Plast CQ 241** 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 strength.

### PACKAGING

- IBC 1000L
- Bulk delivery on request

### FIELDS OF APPLICATION

**CHRYSO®Plast CQ 241** 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
- Ready-mix concrete
- Extended workability retention
- Hot weather concreting
- Plastic or fluid concretes
- Pumped concrete
- etc

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## INDICATIVE INFORMATION

Product Nature	liquid
Color	Clear to Light Yellow
Lifetime	12 months
Specific gravity	1,170 ± 0,020
pH	8,50 ± 2,00

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

## METHOD OF USE

0.15 to 1.0 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®Plast CQ 241** 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®Plast CQ 241** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- **CHRYSO®Plast CQ 241** 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 B and D, and BSEN 934-2.

## SAFETY

**CHRYSO®Plast CQ 241** is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.