TECHNICAL DATA SHEET

Chryso
Concrete
Solutions

27/10/2024

CHRYSO®Optima CQ 43

New Generation, high range water reducing/ superplasticizing admixture

DESCRIPTION

CHRYSO®Optima CQ 43 is a new generation superplasticizer based on modified polycarboxylate and synthetic polymers.
Thanks to its specifically designed molecular structure, **CHRYSO®Optima CQ 43** enables the concrete manufacturer to produce cohesive, low viscous concrete with long workability retention.

CHRYSO®Optima CQ 43 has been developed to maintain fresh concrete workability without compromising the setting time.
CHRYSO®Optima CQ 43 enables the production of self levelling concrete.

BENEFITS

- **CHRYSO®Optima CQ 43** allows concrete with an important workability to be obtained, while reducing the water/cement ratio.
- Enhances the workability retention of concrete in hot climates.
- The dispersion properties of **CHRYSO®Optima CQ 43** allow the user to optimise the cement content when a specified mechanical strength is required.
- On account of all these characteristics, **CHRYSO®Optima CQ 43** is a superplasticizer which is particularly adapted for usage in construction jobsites and in the ready mix concrete industry.

PACKAGING

- IBC 1000L
- Bulk delivery on request

FIELDS OF APPLICATION

CHRYSO®Optima CQ 43 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
- Prestressed concrete
- Ready-mix concrete
- Workability retention
- Self consolidating concrete
- Hot weather concreting
- Pumped concrete
- Plastic or fluid concretes
- High early and ultimate strength
- Concrete for highly reinforced structures

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INDICATIVE INFORMATION

Product Nature	liquid
Color	Pale yellow
Lifetime	12 months
Specific gravity	1,040 ± 0,020
pH	4,00 ± 2,00

Cl^- 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®Optima CQ 43** 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.
- Protect from heat.
- 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 CQ 43** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- **CHRYSO®Optima CQ 43** 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®Optima CQ 43 is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.

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