

# CHRYSO®Optima CQ 48KH

New Generation, high range water reducing/  
superplasticizing admixture

## DESCRIPTION

**CHRYSO®Optima CQ 48KH** is a new generation superplasticizer high range water reducer, based on patented innovative polymers.

**CHRYSO®Optima CQ 48KH** is especially recommended for self-compacting or high flow concrete requiring high early age and long term strengths, while maintaining its workability.

**CHRYSO®Optima CQ 48KH** enables the production of concrete with very low water-cement ratios.

**CHRYSO®Optima CQ 48KH** can be used in self-levelling concrete production.

## BENEFITS

- **CHRYSO®Optima CQ 48KH** allows concrete with the required workability to be obtained while reducing the water/cement ratio.
- Enhances the workability retention of concrete in hot climates.
- The excellent dispersion properties of **CHRYSO®Optima CQ 48KH** allow the user to optimise the cement content with reference to the specified concrete strength.
- With all these characteristics, **CHRYSO®Optima CQ 48KH** 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 48KH** is recommended for all concrete mixes where low water content, improved cementitious material performance, high workability retention and high strengths characteristics are desirable.

- All types of cement
- Heavy prefabrication
- High performance concrete
- Pre stressed concrete
- Ready mix concrete
- Concrete of humid, plastic or fluid consistency
- Self levelling concrete
- High strength concrete with workability retention
- Compatible with Micro Silica, GGBS and Fly Ash
- Extended workability concrete
- White or pale concrete

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### INDICATIVE INFORMATION

|                         |                  |
|-------------------------|------------------|
| <b>Product Nature</b>   | liquid           |
| <b>Color</b>            | Pale yellow      |
| <b>Lifetime</b>         | 12 months        |
| <b>Water solubility</b> | Soluble in water |
| <b>Specific gravity</b> | 1,063 ± 0,020    |
| <b>pH</b>               | 5,00 ± 2,00      |

### METHOD OF USE

The optimum dosage of **CHRYSO® Optima CQ 48KH** can only be established after trial tests, considering local conditions, materials and specification requirements.

**CHRYSO® Optima CQ 48KH** can be added to the mixing water or later, on concrete. Should the product be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed at 1 minute per m<sup>3</sup> of concrete (at least 6 minutes).

- Between 0.3 and 2.5 liters per 100 kg of total cementitious materials.
- Dosage rates of **CHRYSO® Optima CQ 48KH** 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

#### Compatibility:

**CHRYSO® Optima CQ 48KH** is compatible with all types of Portland cement, class C and F fly ash, GGBS, micro silica, fibers and approved air entraining admixtures.

- Store away from frost. Use **CHRYSO® Optima CQ 48KH** at a temperature above 0°C.
- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- CHRYSO® Optima CQ 48KH** 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 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.