

# CHRYSO® Alpha CQ 55

High Range Water Reducing Admixture  
for semi - dry concrete



## DESCRIPTION

**CHRYSO®Alpha CQ 55** is specifically formulated for semi dry concrete.

It is designed and developed for the production of concrete blocks and associated products. This innovative solution improves the quality and the optimization of industrial process.

**CHRYSO®Alpha CQ 55** is a powerful admixture which allows:

- Strength enhancement allowing mix cost optimization.
- Improved surface finish giving visual improvement to quality.
- Reduced vibration cycle times optimizing production capacity.
- Reduces potential breakages and rejects within the production process.

## BENEFITS

- **CHRYSO®Alpha CQ 55** aids in cement dispersion, therefore improving cement hydration.
- Proven to improve placement of semi-dry concrete into moulds.
- **CHRYSO®Alpha CQ 55** is an ideal solution to improve consistency of the manufacturing process of blocks and associated products, also helping to reduce cycle times. These advantages save time without affecting quality in the production of these elements.
- Improves the green strength, reducing potential deformations and breakage of the products before the curing process is completed.
- **CHRYSO®Alpha CQ 55** has been specifically designed to cope with variations in moisture content during the production process.

## PACKAGING

- IBC 1000L
- Bulk delivery on request

## FIELDS OF APPLICATION

**CHRYSO®Alpha CQ 55** is recommended for all semi dry concrete mixes where low water content, improved cementitious material performance (more MPa/kg), accelerated set times, reduced curing costs and high early strength characteristics are desirable.

**CHRYSO®Alpha CQ 55** can be adapted for any Manufactured Concrete Products (MCP) requiring increased early compressive or flexural strengths without detriment to ultimate strengths.

- All cement types
- All kinds of immediate mould-release elements
- Machine manufactured and drycast
- Precast elements (precast stones, decorative slabs...)
- Most semi-dry concrete applications
- Paving blocks
- High early age strength
- Drycast concrete, coloured or not
- 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>	1,080 ± 0,020
<b>pH</b>	4,00 ± 2,00

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

### METHOD OF USE

0.3 to 2.0 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® Alpha CQ 55** 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® Alpha CQ 55** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- **CHRYSO® Alpha CQ 55** 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.

### SAFETY

**CHRYSO® Alpha CQ 55** is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.