

# Chryso® Alpha CQ 100

High Range Water Reducing Admixture  
for semi - dry concrete



## DESCRIPTION

**CHRYSO®Alpha CQ 100** is a specially formulated admixture designed for semi-dry concrete applications, particularly in the production of concrete blocks and related products.

It enhances the strength of the mix, allowing for cost optimization without compromising performance. The admixture also improves the surface finish, resulting in a more visually appealing product.

By reducing vibration cycle times, it helps optimize production capacity, while also minimizing the risk of breakages and rejects during the manufacturing process.

**CHRYSO®Alpha CQ 100** contributes to higher efficiency, better quality, and more sustainable concrete production.

## BENEFITS

- **CHRYSO®Alpha CQ 100** facilitates efficient cement dispersion, which in turn enhances cement hydration.
- Proven to improve placement of semi-dry concrete into moulds.
- An ideal solution for enhancing the consistency of the manufacturing process for concrete blocks and associated products, enabling reduced cycle times without compromising quality.
- Improves the green strength, reducing potential deformations and breakages.
- Specifically designed to accommodate moisture content variations during the production process, ensuring consistent performance and product quality.

## PACKAGING

- IBC 1000L
- Bulk delivery on request

## FIELDS OF APPLICATION

**CHRYSO®Alpha CQ 100** 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. It 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, etc.

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## INDICATIVE INFORMATION

|                  |                |
|------------------|----------------|
| Product Nature   | liquid         |
| Color            | Pale yellow    |
| Lifetime         | 12 months      |
| Water solubility | Fully miscible |
| Specific gravity | 1,039 ± 0,020  |
| pH               | 4,50 ± 2,00    |

## METHOD OF USE

- Dosage between 0.3 and 2.0 kgs per 100 kg of total cementitious material.
- The optimum dosage of **CHRYSO®Alpha CQ 100** can only be established after trial tests, taking into account local conditions, materials and specification requirements.
- It 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).
- Dosage rates 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.

## PRECAUTIONS

- Protect from frost.
- Use at a temperature above 0° C.
- If it freezes, it will retain its properties. Once thawed, thorough agitation is required to restore the product to a fully homogeneous state.

### Compatibility:

- Compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- 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 BSEN 934 2

## SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.