

CHRYSO®Omega 104

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Water Reducing Plasticizer

■ Features

CHRYSO®Omega 104 is a new generation superplasticizer. Its molecular structure has been especially designed to give it exceptional properties in the use of concrete.

CHRYSO®Omega 104 helps obtain very long workabilities at every level of consistency, compared to classical admixtures.

CHRYSO®Omega 104 results in a homogeneous concrete, without bleeding. With this innovative admixture, the concrete obtained is cohesive and its viscosity is low, which helps to obtain better-looking facings.

■ Benefits

- Enhances the workability retention of concrete in hot climates.
- High water reduction ability.
- The dispersion properties of **CHRYSO®Omega 104** allow the user to optimise the cement content when a specified mechanical strength is required.

■ Areas of Application

CHRYSO®Omega 104 is recommended for all concrete mixes where water content, improved cementitious material performance (more psi/lb) accelerated set times, reduced curing costs and very high early strengths characteristics are desirable.

CHRYSO®Omega 104 is especially adapted for any concrete application requiring increased early compressive or flexural strengths without detriment to ultimate strengths.

1. All types of cement
2. Ready-mix concrete with stable workability
3. Concrete of humid, plastic or fluid consistency
4. Pumped concrete
5. Pre-stressed concrete
6. Heavy prefabricated elements

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■ Description:

Characteristics:

CHRYSO®Omega 104 is a chemically stable liquid

Nature: liquid

Colour: yellowish

Density: 1.080 ± 0.020

pH: 5.5 ± 2.0

Cl⁻ ion content : nil to EN 934 and BS 5075

CHRYSO®Omega 104 does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

Packaging:

- IBC: 1000 L

- Drums : 200 L

Standard specifications:

Conforms to BS EN 934-2

■ Directions for use:

Dosage

Between 0.250 and 2.0 kg per 100 kg of cement. A 1.0 % dosage of the product to the weight of cement is commonly used.

CHRYSO®Omega 104 can be added to the water before mixing the concrete. However, it can be added to the concrete after mixing.

Dosage rates of **CHRYSO®Omega 104** 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.

Compatibility:

CHRYSO®Omega 104 is compatible with all types of Portland cement, class C and F fly ash, slag, microsilica, calcium chloride, fibers and approved air entraining admixtures.

Precaution:

- Store away from frost. Use **CHRYSO®Omega 104** at a temperature superior to 0°C.
- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- Shelf life: 9 months.

■ Safety:

CHRYSO®Omega 104 is not considered dangerous to handle. Please refer to the material safety data sheet for additional information.

About CHRYSO:

Worldwide leader for cement and concrete additives for over 70 years, **CHRYSO** has been designing, producing, specifying and delivering its added-value solutions to the construction professionals with outstanding innovation and quality service. As a result, **CHRYSO's** brand and products have been associated with the most prestigious and demanding construction projects over the globe.

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