

CHRYSO®Plast CQ 214

Water reducing and retarding admixture



DESCRIPTION

CHRYSO®Plast CQ 214 is a water reducing plasticizer based on blended synthetic polymers particularly recommended for ready mix concrete and civil engineering construction sites.

CHRYSO®Plast CQ 214 has been specifically formulated to promote dispersion of particles in concrete, resulting in a major improvement in workability.

CHRYSO®Plast CQ 214 optimizes the quantity of cement required to obtain a given concrete compressive strength. For an equivalent plasticity and after reduction of mixing water:

- the concrete is denser;
- reduced capillary action.

BENEFITS

- Enhances the workability retention of concrete in hot climates
- Water reduction ability
- The dispersion properties of **CHRYSO®Plast CQ 214** allow the user to optimise the cement content when a specified mechanical strength is required.
- As the particles are highly dispersed, the hydration of the binder is enhanced, resulting in a substantial water reduction and an increase in both early age and ultimate compressive strength.

PACKAGING

- IBC 1000L
- Bulk delivery on request

FIELDS OF APPLICATION

CHRYSO®Plast CQ 214 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
- Concrete for highly reinforced structures
- Ready-mix concrete
- Extended workability retention
- Hot weather concreting
- Plastic or fluid concretes
- Pumped concrete
- etc

CHRYSO® Plast CQ 214

Water reducing and retarding admixture

INDICATIVE INFORMATION

Product Nature	liquid
Color	Dark brown
Lifetime	12 months
Specific gravity	1,130 ± 0,020
pH	6,00 ± 2,00

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

METHOD OF USE

0.2 to 1.2 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® Plast CQ 214** 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® Plast CQ 214** is compatible with all types of Portland cement, class C and F fly ash, GGBS, microsilica, fibers and approved air entraining admixtures.
- **CHRYSO® Plast CQ 214** 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 B and D, and BSEN 934-2.

SAFETY

CHRYSO® Plast CQ 214 is not considered dangerous to handle. Prior to any use, please read carefully the Material Safety Data Sheets.