

CHRYSO®Delta BH 21

New Generation, high range water reducing/
superplasticizing admixture

DESCRIPTION

CHRYSO®Delta BH 21 is a new generation superplasticizer based on modified polycarboxylate and synthetic polymers particularly recommended for readymix concrete and civil engineering construction sites.

Thanks to its specifically designed molecular structure, **CHRYSO®Delta BH 21** enables the concrete manufacturer to produce cohesive, low viscous concrete with long workability retention.

CHRYSO®Delta BH 21 intends to create a high water reduction and/or an increased period of workability retention. It allows the manufacture of concrete with a long workability retention without prejudicial set retarding effect. Thus, it can be used in a wider concrete range.

BENEFITS

- **CHRYSO®Delta BH 21** allows concrete with the required workability to be obtained, while reducing the water/cement ratio.
- Enhances the workability retention of concrete in hot climates.
- Improves concrete pumpability and finishing quality.
- The dispersion properties of **CHRYSO®Delta BH 21** allow the user to optimise the cement content when a specified mechanical strength is required.

PACKAGING

- IBC 1000L
- Bulk delivery on request

FIELDS OF APPLICATION

CHRYSO®Delta BH 21 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

Product Nature	liquid
Color	Pale yellow
Lifetime	12 months
Specific gravity	1,072 ± 0,020
pH	5,00 ± 2,00

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

METHOD OF USE

- 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).
- Between 0.5 and 2.0 liters per 100 kg of total cementitious materials.
- Dosage rates of **CHRYSO®Delta BH 21** 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®Delta BH 21 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®Delta BH 21** at a temperature above 0°C.
- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- **CHRYSO®Delta BH 21** 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.