

Technical data sheet

CHRYSO® Optima 100

Water reducing plasticiser

Description

CHRYSO®Fluid Optima 100 is a new generation polymer based on modified phosphonates. Its specially designed molecular structure gives it exceptional properties as a concrete additive.

Advantages

- The use of **CHRYSO®Fluid Optima 100** results in plastic conditions being maintained for an extended time at all levels of consistency, with respect to standard additives.
- **CHRYSO®Fluid Optima 100** is compatible with majority types of cement. In most cases, it is the solution when there is a problem of compatibility between the cement and the additive.
- Due to its characteristics, CHRYSO®Fluid Optima 100 is a superplasticiser particularly adapted for use on construction sites and in the ready mix concrete industry. Offers good gloss and hiding at economical use levels.

Application guidelines

Use

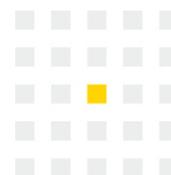
- All cement types
- Hot weather concreting
- High performance and very high performance concrete
- Extended workability retention
- Pumped concrete
- Pre-stressed concrete
- Highly reinforced concrete

Physical and chemical properties

- Physical state: Liquid
- Density: 1.06
- Colour: White/yellow, slightly milky
- pH: 4 ± 0.5
- Freezing point: about -3°C
- Cl-ions content: < Nil
- Na₂O equivalent: <0.3%
- Dry extract: 30%

Dosage

- Dosage: 0.3 to 5 kg per 100 kg of cement
- **CHRYSO®Fluid Optima 100** is completely miscible in water Precautions
- CHRYSO®Fluid Optima 100 must be added to the mixing water in one dose, before adding to the mixer; do not split the addition through the mixing cycle.
- Depending on the use, it is possible to use **CHRYSO®Fluid Optima 100** at the same time as other CHRYSO additives.
- The optimum dosage of **CHRYSO®Fluid Optima 100** can only be established after trial tests, taking into account local conditions affecting the workability of the mix and the mechanical properties required from the concrete.



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Precautions

- Protect from frost.
- Avoid prolonged exposure to high temperatures.
- Should the product freeze, it will recover its properties.
- After thawing, an efficient agitation is necessary until the product is entirely homogeneous again.

Storage

- Store products in tightly closed original containers
- at temperatures recommended on the product label.

Health and safety

- **CHRYSO[®]Fluid Optima 100** is not considered dangerous but it is recommended that normal industrial precautions are taken
- For more information, please refer to the material safety data sheet.

Disclaimer: The information contained in this document is given to the best of CHRYSO's knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving CHRYSO's liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. CHRYSO specialists are at the disposal of the users in order to help them with any problems encountered.