





CHRYSO®Fluid Optima 100

Water reducing Plasticizing admixture

DESCRIPTION

CHRYSO®Fluid Optima 100 is a plasticizer – water reducer which works as a new generation superplasticizer based on modified phosphonate. Its specifically designed molecular structure gives it exceptional properties as a concrete additive. Using CHRYSO®Fluid Optima 100 results extensive workability at all levels of consistency, compared to standard additives. In this respect, CHRYSO®Fluid Optima 100 is particularly adapted to the pumping of concrete over long distances.

CHRYSO®Fluid Optima 100 is compatible with most types of cement. In most cases, it is the solution to cement / admixture incompatibility. On account of all these characteristics, CHRYSO®Fluid Optima 100 is a superplasticizer which is particularly adapted for use on construction sites and in the ready mix concrete industry.

FIELDS OF APPLICATION

- Pumped concrete
- High Performance Concrete Very High Performance Concrete
- Concrete for highly reinforced structures
- Prestressed concrete
- All cement types
- Hot weather concreting
- Extended workability retention
- **3AZ98**

INDICATIVE INFORMATION

Product Nature	liquid
Color	Translucent yellow
Lifetime	9 months
Freezing Point	-3 °C

SPECIFICATIONS

Halogen Dry Extract	30,20 % ± 1,50
CI- lons content	≤ 0,100 %
Equivalent Content NA ₂ O	≤ 0,30 %
Specific gravity (20°C) in kg/dm3	1,061 ± 0,020
pH (20°C)	4,70 ± 1,00
Dry extract (EN 480-8)	31,00 % ± 1,500

METHOD OF USE

- A 1.0% dosage of the product of the weight of cement is commonly used.
- This product is completely miscible in water.
- This product must be added to the mixer with the mixing water.
- The product can also be added later on site.
- 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.
- Dependant on application this product can be used in conjunction with some other CHRYSO® admixtures.

Dosage:

0.3 to 5.0 kg for 100 kg of cement.

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.

SITE REFERENCES

Surface retarded concrete. Rion-Antirion bridge, Greece. Excavation shaft for the gold mine of Moab Khotsong, South Africa: shotcrete and concrete pumped over long distances. uShaka Marine World in Durban, South Africa: pilars and water retention structures. Tamarins road, Reunion island: many works structures along the road. Viaducts over Motorway A85 (Ingrandes aka "La Perrée" and Roumer), France. Port 2000 Le Havre - 1st and 2nd phases,



The information contained in this technical data sheet is given to the best of our knowledge and the result from extensive testing - which were conducted in order to remain as objective as possible. However, it cannot, in any case, be considered as a warranty involving our liability in case of misuse or any different use of our products, other than those from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Please enquire for the most recent version of the technical data sheet, available on www.chryso.fr

CHRYSO 19 place de la Résistance - 92445 ISSY LES MOULINEAUX France Tél.:*33 (0)1 41 17 18 19 Fax:+33 (0)1 41 17 18 80 e-mail:contact@chryso.com









CHRYSO®Fluid Optima 100

Water reducing Plasticizing admixture

NORMATIVE AND REGULATORY INFORMATION

- This product conforms to CE marking. The appropriate declaration can be found on our internet site.
- This product conforms to NF 085 certification, which technical specifications are those applied in the non harmonised part of NF EN 934-2.

TEST SITE

Workability retention

France: diaphragm walls and docking mask. Nelson Mandela Bridge, South Africa: 4 concrete formulations for the different elements of the bridge. Brault Lock, France: concrete pumped under water. Tunnel of Marseilles (TGV Med), France: World record of pumping concrete over long distances = 2,719.65 m. Pic du Midi (South Peak) Observatory, France: European record of pumping concrete in altitude (2,850 m). Viaduct of Barrails, France: prestressed concrete ring segments.

SECURITY

Before use, see MSDS.



