

# CHRYSO® Fluid GT

## High range water reducing Super plasticizing admixture



**CHRYSO® Fluid GT** is a synthetic superplasticizer based on modified sulfonated polymelamine specifically designed for use with hydraulic binders.

Its unique chemical structure renders it particularly effective.

-It promotes excellent dispersion of the particles in the concrete mixture resulting in a major improvement in the workability of concrete,  
-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.

### Indicative characteristics

- Nature: liquid
- Colour: Brown
- Specific gravity (20°C):  $1,150 \pm 0,010$
- pH:  $9,50 \pm 1,00$
- Solid content (EN 480-8):  $30,50\% \pm 1,50\%$
- Solid content (24h-105°C):  $30,00\% \pm 1,00\%$
- Na<sub>2</sub>O equivalent:  $\leq 3,05\%$
- Cl<sup>-</sup> ions content:  $\leq 0,10\%$
- Freezing point: -2 °C
- Shelf life: 12 months

### Norms and regulations

- 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.
- This product conforms to ASTM C 494 – type F.

- This product doesn't have any effect on the corrosion of steel in concrete (electrochemical test according to DIN V 18998:2002-11).

### Domains of application

- All cement types excluding white cement
- Slump flow between 50 and 210 mm
- Cement grout
- Industrial slabs
- Concrete for highly reinforced structures
- High Performance Concrete - Very High Performance Concrete
- Prestressed concrete

### Precautions

Do not use in white or light coloured concrete. 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.

### Method of use

Dosage: 0.6 to 5.0 kg for 100 kg of cement.

This product is completely miscible in water.

This product must be added to the mixing water or later on, on concrete.

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).

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.

With the use of **CHRYSO® Fluid GT**, fluid concrete



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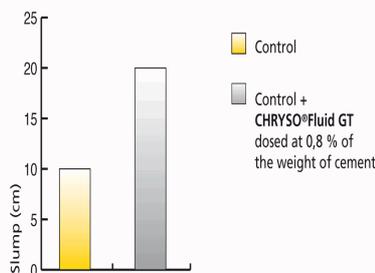
is produced without any notable change in the set time. In high workability concrete, the grading should contain a higher proportion of fine particles than in standard concrete, comparable to pumped concrete.

The length of time during which concrete remains workable depends on the temperature, the consistency of the concrete before adding **CHRYSO® Fluid GT**, the nature and type of the cement and the dosage used.

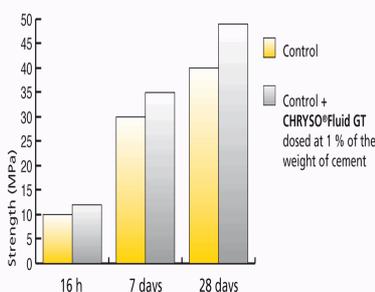
### Tests

Example of results obtained according to the methods defined in the ISO 4012 standard (resistance tests, graph A) and the EN 12358 standard (consistency tests, graph B).

Graph B  
For constant water/cement ratio  
Concrete formulated with CEM I 42,5 cement



Graph A  
At equal workability  
Concrete formulated with CEM I 52,5



### Construction sites references

Channel Tunnel, France-United Kingdom.  
Vasco de Gama bridge in Lisbon, Portugal: pylons of the multiple cable-stayed bridge, star structure of the 1998 Universal Expo.  
Normandy Bridge between Le Havre and Honfleur, France: prestressed concrete for the matrixed surfaces of the pylons and their reinforced base plates.  
Lesotho Highlands Water Project: concrete pumped over long distances for the water retention elements, requiring optimal water proofing qualities.

### Safety

This product is classified as "irritating". Handling may cause irritation by contact. Wearing the appropriate protective equipment (safety glasses, gloves, mask and/or covering clothes) according to the exposure is essential.  
Before use, refer to the safety data sheet on our internet site [www.chryso.com](http://www.chryso.com)



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.com](http://www.chryso.com).

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