

# CHRYSO®Plast Delta CER

## Water reducing Plasticizing admixture



Due to its specific formula, **CHRYSO®Plast Delta CER** is an additive which results in an increased dispersion of the particles in concrete. **CHRYSO®Plast Delta CER** optimises the dosage of cement necessary to obtain a given compressive strength.

For an equivalent plasticity and after reducing the quantity of mixing water:

- concrete is denser,
- capillary action is reduced,
- depending on the dosage, there is an increase in compressive strength after 24 hours.

**CHRYSO®Plast Delta CER** has water repellent properties and can therefore be used to reduce the permeability of concrete.

### Indicative characteristics

- Nature: liquid
- Colour: Brown
- Specific gravity (20° C):  $1,125 \pm 0,015$
- pH:  $6,00 \pm 1,00$
- Solid content (halogen):  $23,20\% \pm 1,10\%$
- Solid content (EN 480-8):  $23,60\% \pm 1,10\%$
- Na<sub>2</sub>O equivalent:  $\leq 3,50\%$
- Cl<sup>-</sup> ions content:  $\leq 0,10\%$
- Freezing point: -3 °C
- Shelf life: 18 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 NBN-EN 934-2 Belgium.

- This product conforms to ASTM C 494 – types A and D.
- 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
- Pumped concrete
- Ready-mix concrete
- Reinforced concrete
- Prestressed concrete
- Precast

### Precautions

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: 0.2 to 0.8 kg for 100 kg of cement.

A 0.3% 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 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 a dosage from 0.2 to 0.35% the water reducing effect is dominant.

With a dosage above 0.35%, there is a secondary retarding effect.

Using **CHRYSO®Plast Delta CER** also improves the

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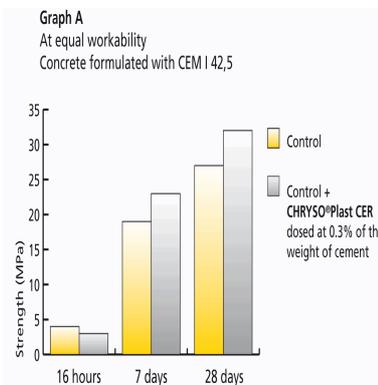
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waterproofing of concrete.

### Tests

Example of results obtained according to the methods defined in the ISO 4012 standard (resistance tests).



### Construction sites references

Works of art on the Northern TGV line.  
Nuclear plants of Civeaux and Golfech, France.  
Vasco de Gama bridge in Lisbon, Portugal: pylons of the multiple cable-stayed bridge, star structure of the 1998 Universal Expo.  
Channel Tunnel, France-United Kingdom.

### Safety

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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