

# Chryso® Optima 100

Water reducing Plasticizing admixture

## DESCRIPTION

**CHRYSO® Optima 100** is a plasticiser – water reducer which works as a new generation superplasticiser based on modified phosphonate. Its specifically designed molecular structure gives it exceptional properties as a concrete additive.

Using **CHRYSO® Optima 100** results extensive workability at all levels of consistency, compared to standard additives. In this respect, **CHRYSO® Optima 100** is particularly adapted to the pumping of concrete over long distances.

**CHRYSO® Optima 100** is compatible with most types of cement / admixture incompatibility. On account of all these characteristics.

**CHRYSO® Optima 100** is a superplasticiser which is particularly adapted for use on construction sites and in the ready mix concrete industry.

## FIELDS OF APPLICATION

### Types of Application

- All types of cement
- Hot weather concreting
- Pumped concrete
- Extended workability retention
- Concrete for highly reinforced structures
- High performance concrete – very high performance concrete
- Prestressed concrete

## INDICATIVE INFORMATION

<b>Product Nature</b>	Liquid
<b>Color</b>	Cream
<b>Lifetime</b>	9 months
<b>Halogen Dry Extract</b>	30,00 % ± 1,50
<b>Cl<sup>-</sup> Ions content</b>	≤ 0,100 %
<b>Equivalent Content Na<sub>2</sub>O</b>	≤ 0,30 %
<b>Specific gravity</b>	1,060 ± 0,010
<b>pH</b>	3,20 ± 1,00
<b>Freezing Point</b>	-3 °C

## PACKAGING

- Container of 1000L
- Bulk delivery on request

## METHOD OF USE

### Dosage :

0.3 to 5.0 kg for 100 kg of cement.

- 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.

## PRECAUTIONS

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

## NORMATIVE AND REGULATORY INFORMATION

- This product conforms to UKCA and CE marking. The appropriate declaration can be found on our internet site

## SAFETY

CHRYSO® Optima 105 is a product classified as "harmless". It is recommended to wear normal protective equipment.

For further information, please refer to the safety data sheet on our internet site [www.uk.chryso.com](http://www.uk.chryso.com).

## TECHNICAL DATA SHEET

# Chryso® Optima 100

Water reducing Plasticizing admixture

UK  
DK



Chryso  
Concrete  
Solutions

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The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However, it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be conducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs. [www.chryso.uk](http://www.chryso.uk)

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