

# Chryso® Optima 1180

High range water reducing Super plasticizing admixture

## DESCRIPTION

**Chryso® Optima 1180** is a new generation superplasticiser, based on modified polycarboxylate. As a member of the Optima 1000 series of superplasticisers, increased consistence retention and low viscosity are key characteristics. This is particularly suited for extended transport and placement of concrete over large construction areas, long pumping distances, and precast facilities.

**Chryso® Optima 1180** enables very low W/C ratios, with excellent tolerance to water addition, to be produced in the concrete at all levels of consistency.

## BENEFITS

- Increased open time for handling and placement.
- Low viscosity rheology.
- Improved compaction.
- Cement optimisation without strength loss.
- Increased cohesion, robustness, and tolerance to water addition.
- Increased resistance to bleed and segregation
- Reduced drying shrinkage

## FIELDS OF APPLICATION

### Types of Application

- High, & Ultra High Performance concretes
- Pumped concrete
- Congested reinforcement
- Plastic to fluid concretes
- Self-compacting/flowing concrete
- High ambient temperatures

### Compatibility with Cements

- All types of cement
- Pulverised fuel ash
- Ground granulated blastfurnace slag

## INDICATIVE INFORMATION

Product Nature	Liquid
Color	Brown
Lifetime	12 months
Specific gravity	1,066 ± 0,020

## PACKAGING

## METHOD OF USE

### Dosage :

Dosage: 0.5 to 2.0 % for 100 kg of cement.

- A 1.0 % dosage of the product of the weight of cement is commonly used.
- It is recommended that preliminary tests are carried out on the product to determine the optimum dosage for the intended application. Please contact our Technical Department for advice regarding initial trial dosage.
- This product is completely miscible in water.
- This product must be added to the mixing water.
- Concrete incorporating this product should be mixed thoroughly until a homogeneous mix has been achieved.

## PRECAUTIONS

- Stir the product before use.
- 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.

## NORMATIVE AND REGULATORY INFORMATION

- This product conforms to UKCA and CE marking. The appropriate declaration can be found on our internet site.
- This product is a High-range water reducer/Superplasticiser with CE marking.
- This product conforms to BS EN934-2 Table 3 certification, which technical specifications are those applied in the non-harmonised part of the BS EN 934-2.

## SAFETY

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

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- 215 L Barrel
- Container of 1000L
- Bulk delivery on request