



# CHRYSO® Optima 1180

## Superplasticiser with consistence retention and enhanced rheology

**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.

### Types of Application

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

### ADVANTAGES & 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

### Norms and Regulations

**CHRYSO® Optima 1180** is a High-range water reducer/Superplasticiser with CE marking.

**CHRYSO® Optima 1180** 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.

**Country of Origin:** United Kingdom

### Indicative Characteristics

- Nature: Liquid
- Colour: Brown
- Specific gravity (20° C): 1.066 ± 0.02

### Compatibility with Cements

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

We recommend contacting our Technical Department for use with special cements

### Precautions

- Shelf life: 12 months
- Stir the product before use.
- Store away from frost.
- Should the product freeze, it will recover its properties after thawing and agitating.

### Method of Use

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.

**CHRYSO® Optima 1180** is completely miscible in water and must be added to the mixing water.

Concrete incorporating **CHRYSO® Optima 1180** should be mixed thoroughly until a homogeneous mix has been achieved.

### Packaging

- Bulk
- Barrels of 215 L
- Containers of 1000 L

### Safety

**CHRYSO® Optima 1180** 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).



The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing 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 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.

CHRYSO UK Limited 9 Brunel Close Daventry Northamptonshire NN11 8RB Telephone 01327 707976

