

Chryso® Optima 1180

High range water reducing Super plasticizing admixture

DESCRIPTION

Chryso® Optima 1180 is a high-range water-reducing superplasticiser based on modified polycarboxylate technology. As part of the Optima 1000 series, it combines extended workability retention with low-viscosity rheology, making it particularly suitable for long transport times, large placement areas, and extended pumping distances.

Chryso® Optima 1180 enables the production of concrete with very low water/cement ratios while maintaining excellent tolerance to water addition. It is suitable for a wide range of concrete consistencies, from plastic concretes through to flowing and self-compacting mixes.

BENEFITS

- Extended workability retention
- Increased open time for handling and placement
- Low-viscosity rheology
- Improved compaction
- Cement optimisation without strength loss
- Increased cohesion and robustness
- Improved tolerance to water addition
- Increased resistance to bleeding and segregation
- Reduced drying shrinkage
- Excellent pumpability for long-distance placement

FIELDS OF APPLICATION

Types of Application

- High-performance concrete (HPC)
- Ultra-high-performance concrete (UHPC)
- Pumped concrete
- Congested reinforcement applications
- Plastic to flowing concretes
- Self-compacting concrete (SCC)
- High ambient temperature concreting

Compatibility with Cements

- All cement types
- Pulverised fuel ash (PFA)
- Ground granulated blastfurnace slag (GGBS)

INDICATIVE INFORMATION

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

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 health, safety, and environmental information, refer to the relevant **Safety Data Sheet (SDS)**.

For further information, please refer to the safety data sheet on our internet site www.uk.chryso.com.

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.

CHRYSO UK Ltd. - 1 Herald Way, Binley Industrial Estate, Coventry, United Kingdom, CV3

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TECHNICAL DATA SHEET

UK
CA



Chryso
Concrete
Solutions

03/09/2026

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PACKAGING

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

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