

Chryso® Optima 100

Water reducing Plasticizing admixture

DESCRIPTION

Chryso® Optima 100 is a high-performance water-reducing plasticising admixture based on modified phosphonate technology. Its specially designed molecular structure provides exceptional workability retention across a wide range of consistencies, making it particularly suitable for applications requiring extended placing times and long-distance pumping.

Chryso® Optima 100 is compatible with most cement types and is designed for use in ready-mix and site-batched concrete. It is particularly suited to demanding applications where high workability, ease of placement, and consistent performance are required.

BENEFITS

- Provides effective water reduction
- Delivers extended workability retention
- Improves concrete pumpability over long distances
- Suitable for hot weather concreting
- Supports the production of high-performance concrete
- Compatible with most cement types
- Suitable for highly reinforced structures
- Can be added at the batching plant or on site

FIELDS OF APPLICATION

Chryso® Optima 100 is suitable for:

- All cement types
- Hot weather concreting
- Pumped concrete
- Concrete requiring extended workability retention
- Highly reinforced concrete structures
- High-performance concrete (HPC)
- Very high-performance concrete (VHPC)
- Prestressed concrete

Chryso® Optima 100 may be used in conjunction with selected Chryso admixtures, depending on the application. Compatibility should be verified through preliminary trials.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Cream
Lifetime	9 months
Halogen Dry Extract	30,00 % ± 1,50
Cl ⁻ Ions content	≤ 0,100 %
Equivalent Content Na ₂ O	≤ 0,30 %
Specific gravity	1,060 ± 0,010
pH	3,20 ± 1,00

METHOD OF USE

Dosage :

Typical dosage range: **0.3 – 5.0 kg per 100 kg of cement**

- A dosage of **1.0% by weight of cement** is commonly used
- The product is completely miscible in water
- Add to the mixer with the mixing water
- The product may also be added later on site
- Optimum dosage should be determined through trial mixes using actual materials and performance requirements

PRECAUTIONS

- Protect from frost
- If frozen, allow the product to thaw completely and mix thoroughly before use
- 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 100 is classified as **harmless**. Normal personal protective equipment should be worn during handling. Refer to the relevant **Safety Data Sheet (SDS)** before use. For further information, please refer to the safety data sheet on our internet site www.uk.chryso.com.

TECHNICAL DATA SHEET

UK
CA



Chryso
Concrete
Solutions

03/09/2026

Chryso® Optima 100

Water reducing Plasticizing admixture

Freezing Point

-3 °C

PACKAGING

- Container of 1000L
- Bulk delivery on request

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.

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P.2/2