

Chryso® Premia 540

High range water reducing Super plasticizing admixture

DESCRIPTION

Chryso® Premia 540 is a **new-generation superplasticiser** based on **modified polycarboxylate technology**, designed to deliver **high-range water reduction** and exceptional performance in modern concrete mixes. This admixture is engineered to achieve **very low water-to-cement (W/C) ratios**, enabling both **high early strength** and **long-term compressive strength** development.

The product enhances the **workability** and **fluidity** of fresh concrete, improving formwork filling and optimising placement efficiency. Its superior short-term performance allows reduced demoulding time or lower curing temperatures, helping save energy in precast and prefabrication environments.

BENEFITS

- Achieves **high early compressive strengths**
- Enables **reduced demoulding time**
- Improves concrete **workability and fluidity**
- Supports **energy-efficient curing**
- Ideal for **high-performance, precast, and SCC applications**

FIELDS OF APPLICATION

Types of Application

- Heavy prefabrication
- HPC, VHPC and UHPC
- Pre-stressed concrete
- Plastic to fluid concretes
- Self-compacting concrete

Compatibility with Cements

- All types of cement

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Yellow to light brown
Lifetime	12 months
Halogen Dry Extract	32,00 % ± 2,00
Cl ⁻ Ions content	≤ 0,010 %
Equivalent Content Na ₂ O	≤ 0,10 %
Specific gravity	1,065 ± 0,010
pH	4,00 ± 1,00

PACKAGING

- 20 L bucket
- 215 L Barrel
- Container of 1000L

METHOD OF USE

Dosage :

0.3 to 3.0 kg for 100 kg of cement.

- Recommended dosage: **0.3 to 3.0 kg per 100 kg of cement**
- Typical use dosage: **1.0% of cement weight**
- For best performance, add CHRYSO® Premia 540 to **mixing water** before batching; however, it may also be added afterward.

PRECAUTIONS

- Avoid prolonged exposure to high temperatures.
- Store **Chryso® Premia 540** away from frost, at a temperature above 0°C.
- Should the product freeze, it retains its properties, simply thaw and mix thoroughly until a homogeneous product is achieved before use.

NORMATIVE AND REGULATORY INFORMATION

- This product conforms to UKCA and CE marking.

SAFETY

CHRYSO® Premia 540 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.

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

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TECHNICAL DATA SHEET



Chryso
Concrete
Solutions

16/03/2026

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