

Chryso® Premia 504

High range water reducing Super plasticizing admixture

DESCRIPTION

CHRYSO® Premia 504 is a new generation superplasticiser, based on modified polycarboxylate. Due to a specifically designed molecular structure, the admixture is particularly recommended for precast concrete that requires high early and long-term compressive strengths.

CHRYSO® Premia 504 facilitates the production of reduced viscosity concrete. When used in concrete with higher water / cement ratios, it results in exceptional fluidity, which greatly helps the laying of concrete, even without using vibrating techniques.

CHRYSO® Premia 504 enables very low w/c ratios, with excellent tolerance to water addition, to be produced in concrete at all levels of consistency whilst maintaining the 'easy to work with' aspect of the concrete.

BENEFITS

- Low viscosity rheology.
- Improved compaction.
- Increased concrete strengths.
- Cement optimisation without strength loss.
- Robustness and tolerance to water addition.

FIELDS OF APPLICATION

- High performance Concrete - Very High Performance Concrete - Ultra High Performance Concrete
- High early strength
- Prestressed concrete
- Heavily reinforced precast units
- Plastic to fluid concretes
- White concrete

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Cream
Lifetime	9 months
Dry extract (EN 480-8)	30,00 % ± 1,500

The product is harmless.

SPECIFICATIONS

Cl ⁻ Ions content	≤ 0,100 %
Equivalent Content Na ₂ O	≤ -1,40 %
Specific gravity	1,065 ± 0,010
pH	6,50 ± 1,50

METHOD OF USE

Dosage :

0.25 to 2.0 kg for 100 kg of cement.

- 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.
- Mixing should keep going until a homogenous concrete is obtained.
- A 0.8% dosage of the product of the weight of cement is commonly used.

PRECAUTIONS

- 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.
- At high dosage, CHRYSO®Premia 504 may generate a light set retarding effect with some cements.

NORMATIVE AND REGULATORY INFORMATION

- This product conforms to UKCA and CE marking.
- This product conforms to BS EN 934-2 Table 3 certification, which technical specifications are those applied in the non-harmonised part of the BS EN 934-2.

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Dry Extract (SYNAD -
IFSTTAR)

30,90 % ± 1,50

PACKAGING

- Bulk delivery on request
- Container of 1000L

SAFETY

CHRYSO® PREMIA 504 is classified as "harmless". In case of exposure 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.