

Chryso® Quantec PL 422

Water reducing Plasticizing admixture

DESCRIPTION

Chryso® Quantec PL 422 is a low-dosage, high-performance plasticiser designed to work in conjunction with a catalyst to produce a synergistic effect in low-slump concrete mixes. It improves cement dispersion, optimises hydration potential, and enhances strength development.

Designed for block mixes and low-workability concrete systems involving vibro-compression and instant demoulding. It is manufactured under carefully controlled conditions to ensure consistent performance.

BENEFITS

- Increases compressive strength, typically **15–30%**
- Reduces curing period and steam-curing energy requirements
- Improves responsiveness to vibration
- Enables faster production cycles
- Improves surface finish and texture
- Produces sharper edge definition
- Reduces breakage rates of masonry units
- Improves cement economy while maintaining or increasing strength

FIELDS OF APPLICATION

Chryso® Quantec PL 422 is suitable for:

- Concrete blocks (natural, lightweight, or artificial aggregates)
- Static and mobile block-making systems
- Air-cured, steam-cured, or autoclaved products
- Concrete brick presses
- Paving block production
- Extruded concrete products
- Concrete tile manufacture
- Low-workability concrete systems using vibration-intensive or press-based production methods
- Use with all types of Portland cement, including cement replacement materials

Chryso® Quantec PL 422 must **not** be premixed with other admixtures prior to addition

- Performance may be affected by the presence of other chemicals

Consult Chryso Technical Services when using combined admixture systems.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Amber
Lifetime	12 months
Specific gravity	1,130

METHOD OF USE

Dosage :

Typical dosage range:

- 150 – 300 ml per 100 kg of cement**

For best results, performance should be assessed through **preliminary trials** using actual mix constituents to determine the optimum dosage.

Chryso® Quantec PL 422 is supplied ready for use.

- Add to the mix **after the addition of the cementitious materials**, at the same time as the mixing water
- Overdosing in semi-dry mixes may cause increased plasticity, edge slumping, or set retardation
- The degree of set retardation depends on cement type, dosage, and ambient temperature

If properly cured, overdosed concrete will generally achieve **higher ultimate strength** than standard mixes.

PRECAUTIONS

- Store above **0 °C**
- Protect from frost

NORMATIVE AND REGULATORY INFORMATION

Chryso® Quantec PL 422:

- Conforms to **EN 934-2:2009 + A1:2012**
- Is manufactured under **System 2+** assessment and verification
- Is UKCA certified by **BSI (Notified Body 0086)**
- Is CE certified by **Dancert (Notified Body 1073)**

SAFETY

For health, safety, and environmental information, refer to the relevant **Safety Data Sheet**.

Standard chemical handling precautions apply. Avoid contact with skin and eyes. Suitable personal protective equipment should be worn.

For further information, please refer to the safety data sheet on

TECHNICAL DATA SHEET



**Chryso
Concrete
Solutions**

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PACKAGING

- 1000 kg lined bulk bags
- Bulk delivery on request

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.

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