

CHRYSO®Premia 100

High range water reducing Super plasticizing admixture



CHRYSO®Premia 100 is a new generation superplasticizer based on a modified polycarboxylate polymer. It allows very low water / cement ratios to be utilised, but keeps the easy-to-work aspect of the 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. In addition, its special properties guarantee high early age strengths.

Indicative characteristics

- Nature: liquid
- Colour: Cream
- Shelf life: 9 months

Specifications

- Specific gravity (20°C): $1,065 \pm 0,010$
- pH: $6,50 \pm 1,50$
- Solid content (EN 480-8): $30,00\% \pm 1,50\%$
- Solid content (24h-105°C): $30,00\% \pm 1,50\%$
- Na₂O equivalent: $\leq 1,60\%$
- Cl⁻ ions content: $\leq 0,10\%$

Norms and regulations

- This product conforms to CE marking. The appropriate declaration can be found on our internet site.
- This product conforms to NF 085 certification, which technical specifications are those applied in the non harmonised part of NF EN 934-2.
- This product conforms to NBN-EN 934-2 Belgium.

- This product doesn't have any effect on the corrosion of steel in concrete (electrochemical test according to DIN V 18998:2002-11).

Domains of application

- All cement types
- Ease of casting
- High early and ultimate strength
- Reinforced concrete
- White or plain concretes
- Prestressed concrete
- Precast

Precautions

Protect from frost.

Avoid prolonged exposure to high temperatures. Store in plastic containers, PVC excluded. Should the product freeze, it will recover its properties. After thawing, an efficient agitation is necessary until the product is entirely homogeneous again.

At a high dosage, **CHRYSO®Premia 100** may generate a light set retarding effect with some cement.

Method of use

Dosage: 0.25 to 2.0 kg for 100 kg of cement.

A 0.8% dosage of the product of the weight of cement is commonly used.

This product must be added to the mixing water or at the end of the mixing cycle.

Should the product be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed, for 1 minute per m³ of concrete (with a total minimum of 6 minutes).



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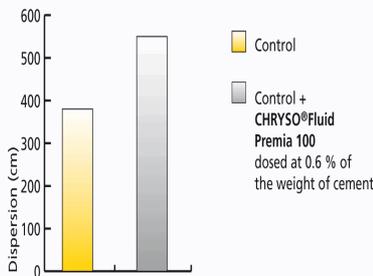
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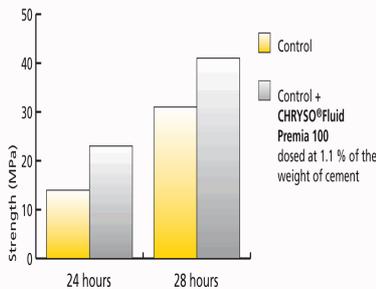
Tests

These results were obtained following the methods defined by the ISO 4012 norm (strength tests, graph A) and the EN 12358 norm (consistency tests, graph B).

Graph B
For constant water/cement ratio
Concrete formulated with CEM I 42,5 cement



Graph A
At equal workability
Concrete formulated with CEM I 42,5



Construction sites references

TGV Brussels - Koln: yellow beige concrete of the elements of 3 bridges and sound-proof walls between the bridges.

Toulouse Metro, line B, France: consistent concrete for the realisation of ring segments.

Coega Harbour (Nqura) in Port Elisabeth, South Africa: breakwater units for the protection of the harbour.

Grand stand for Roland Garros stadium in Paris,

France: self-compacting concrete staircase beams.

Safety

This product is classified as "harmless". In case of exposure, it is recommended to wear your protective equipment.

Before use, refer to the safety data sheet on our internet site www.chryso.com