

# CHRYSO®XeI 650

## Set accelerating admixture



**CHRYSO®XeI 650** is a chloride-free based set accelerating admixture which helps the first reactions of hydration, especially at low temperature.

**CHRYSO®XeI 650** significantly reduces setting time and improves early compressive strengths.

**CHRYSO®XeI 650** is low in alkali.

### Indicative characteristics

- Nature: liquid
- Colour: Orange-yellow
- Shelf life: 18 months

### Specifications

- Specific gravity (20°C):  $1,450 \pm 0,010$
- pH:  $6,00 \pm 1,00$
- Solid content (EN 480-8):  $61,50\% \pm 2,70\%$
- Solid content (24h-105°C):  $60,00\% \pm 2,60\%$
- Na<sub>2</sub>O equivalent:  $\leq 2,70\%$
- Cl<sup>-</sup> ions content:  $\leq 0,10\%$
- Freezing point: -15 °C

### 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.

### Domains of application

- All cement types
- Cold weather concreting
- Ready-mix concrete
- Poured concrete

- Prestressed concrete
- Precast

### Precautions

Do not mix with acid products.

### Method of use

Dosage: 0.4 to 2.5 kg for 100 kg of cement.

A 1.5% dosage of the product of the weight of cement is commonly used.

This product is completely miscible in water.

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

The optimum dosage of this product can only be established after trial tests, taking into account the rheological characteristics and the required mechanical performances of the concrete.

### Tests

Examples of results according to the modes defined in the European NF-EN 480-1 standard. Concrete with CEM I 42,5 (SSB: 3200-4000 cm<sup>2</sup>/g and C<sup>3</sup>A: 7-11 %).

Trials made at constant workability.

	W/C and T°C	Initial set	Final set	Setting time
Control	0.5 to 5°C	650 min	1380 min	730 min
CHRYSO®XeI 650 at 1.7%	0.5 to 5°C	300 min	778 min	478 min
	0.5 to 20°C	200 min	345 min	145 min

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### Construction sites references

Viaduct of Barrails, France: prestressed concrete ring segments.

### Safety

This product is classified as "harmful". In case of exposure, it may cause poisoning. Do not inhale vapours. It is compulsory to wear the appropriate protective equipment (safety glasses, gloves, mask and/or covering clothes) according to the exposure.

Before use, refer to the safety data sheet on our internet site [www.chryso.com](http://www.chryso.com)

