

CHRYSO®Xel 650

Set Accelerator

Chryso
Concrete
Solutions

01/04/2025

DESCRIPTION

- CHRYSO®Xel 650 is a specific non-chloride formulation that promotes initial hydration of cements, particularly at low temperatures.
- The set is accelerated and compressive strength develops rapidly.

PHYSICAL and CHEMICAL PROPERTIES

Product Nature	Liquid
Color	Light brown
Lifetime	12 months
Water solubility	miscible
Halogen Dry Extract	60 % ± 2
Cl ⁻ Ions content	≤ 0.1 %
Freezing Point	-15 °C
Specific Gravity	1.45 ± 2
Viscosity	8-15 secs (Ford #4 Cup)

PACKAGING

- 25 ℓ jerry can
- 200 ℓ drum
- 1000 ℓ flow bin
- Bulk delivery on request

METHOD OF USE

- All types of cement
- Shuttered concrete
- Pre-stressed concrete
- Precast elements
- Ready mix concrete
- Pouring of concrete in cold weather.

Dosage :

Typical:

- By volume: 0.4 to 2.5 litres per 100kg of cementitious material.
- By weight: A 1.5% dosage of the product to the weight of cement is commonly used.
- The optimum dosage of **CHRYSO®Xel 650** can only be established after trial tests, taking into account local conditions affecting the workability of the mix and the mechanical properties required from the concrete.

Dispensing/mixing

- CHRYSO Xel 650** must be added to the mixing water

Tests

- Example of results obtained according to the methods defined in the NF-EN 480-1 European certification. Type of concrete: Cement grade 42.5 (SSB: 3200 - 4000 cm²/g and C3A: 7-11%). Tests carried out for equal consistency.

	Water Temperature	Initial Set	Final Set	Time taken to set
Control	0.5 at 5 °C	650 min	1380 min	730 min
1.7% wt/wt	0.5 at 5 °C	300 min	778 min	478 min
Chryso Xel 650	0.5 at 5 °C	200 min	345 min	145 min

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PRECAUTIONS

- **CHRYSO® Xel 650** is slightly alkaline.
- Do not mix with acidic products.

Storage

- The product should be stored away from rain and frost in clean, dry tanks.

SAFETY

- **CHRYSO® Xel 650** is classified "Harmful". Whilst handling, it is obligatory to have skin and eye protection, avoid prolonged inhalation of the fumes.
- **CHRYSO** will provide onsite assistance when requested.

Prior to any use, please read carefully the Material Safety Data Sheets.