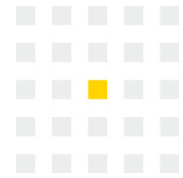


# Technical data sheet

## CHRYSO® Xel 650

### Set Accelerator



#### 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.

#### Application guidelines

##### 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 is completely miscible in water.
- CHRYSO®Xel 650 must be added to the mixing water.

#### Physical and chemical properties

- Physical state(@25° C): liquid
- Specific gravity: 1.45 (±0.01)
- Colour: clear
- pH: 6.5 (±1.5)
- Viscosity(@25°C): 10 -14 secs (ford#4 cup)
- Freezing point: about -15 °C
- Na<sub>2</sub>O equivalent: ≤ 2.7%

#### 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 cm<sup>2</sup>/g and C3A: 7-11%). Tests carried out for equal consistency.

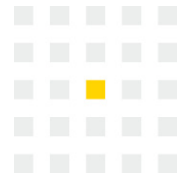
	Water T °C	Initial set	Final set	Time taken to set
Control	0.5 at 5 °C	650 min	1380 min	730 min
1.7% wt/wt CHRYSO®Xel 650	0.5 at 5° C	300 min	778 min	478 min
	0.5 at 20° C	200 min	345 min	145 min

#### Storage

- CHRYSO®Xel 650 has a shelf life of 12 months starting from the manufacturing date - provided no other chemicals are added to it.
- The product should be stored away from rain and frost in clean, dry tanks.

#### Packaging

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



# Technical data sheet

# CHRYSO® Xel 650

## Set Accelerator

### Precautions

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

### Health and 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.
- For more information, please refer to the material safety data sheet.

**Disclaimer:** The information contained in this document is given to the best of CHRYSO's knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving CHRYSO's liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. CHRYSO specialists are at the disposal of the users in order to help them with any problems encountered.