



Technical data sheet

CHRYSO® STX

Early strength activator for PFA and
slag cement blends

Description

CHRYSO® STX is a high efficiency activator that reduces water demand in cement and concrete production, and gives early age mechanical strengths to blended cement. It is also formulated to reduce clinker by increasing extender content - particularly low alkali and fly ash blends.

Advantages

- Significant increase of early age (24 and 48 hour) mechanical strengths as well as maintained 28 day strengths.
- Allows for fly ash and slag extension and therefore decreases the percentage of clinker in cement in order to reduce CO₂ emissions and production costs.

Physical and chemical properties

- Physical state (25°C): liquid
- Colour: clear to amber
- Specific gravity (25°C): 1.157 (±0.01)
- pH (25°C): 5 to 8

Application guidelines

Use

- This activator is used to manufacture CEM II; CEM IV and CEM V.
- **CHRYSO® STX** is a high efficiency, strength improving activator that is specifically formulated to increase the early age mechanical strengths of highly extended cement.

Method and Dosage

- It is suggested that 1.7 l to 2.2 l of **CHRYSO® STX** is used per tonne of cement.
- Industrial trials are required to determine the optimum dosage.
- **CHRYSO® STX** is a ready to use liquid activator that may be applied onto the feed conveyor belt and as such, a dosing pump is required in order to introduce the correct dosage into the mill. **CHRYSO® STX** can be used in conjunction with other grinding aids.
- Dosages in excess of 6 l per tonne of clinker to be ground should be avoided.



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Storage

- **CHRYSO® STX** is guaranteed for 12 months starting from the manufacturing date – provided no other chemicals are added to it.
- The product should be stored away from the rain, in clean, dry tanks.
- This product will not freeze above -5°C.

Packaging

- Bulk tanker loads
- 1 000 ℓ containers

Health and safety

This product is classified as corrosive. **CHRYSO** will provide onsite assistance when requested. 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.