



Technical data sheet

CHRYSO[®]AMA 55 L

Grinding aid activator – 28 day strength
activator for open circuit systems

Description

CHRYSO[®]AMA 55 L is a grinding aid activator that is formulated to increase late strengths of cement manufactured in an open circuit mill to improve the limestone content in cement with constant strength performances.

Advantages

- Increased 28 day mechanical strengths of the cement (from 10% -15% at equal composition).
- Allows for increased limestone extension and therefore decreases the percentage of clinker in cement in order to reduce CO₂ emissions and production costs.
- The mechanical strength of cement is maintained or increased during the early stages.
- Increased mill production (8% to 10%) – depending on the efficiency of the equipment and the characteristics of the material to be ground.
- Reduced grinding energy costs.
- Significant reduction of cement agglomeration on the media, diaphragm, liners and the separator.
- Improved powder flow characteristics before, during and after storage -resulting in improved packing times and packing consistency.
- The mechanical strength of cement is increased at early stages due to improved granulometry (particle size distribution).

Physical and chemical properties

- Physical state (20°C): liquid
- Colour: translucent yellow
- Specific gravity (20°C): > 1,16 (±0,005)
- pH (20°C): 9 to 11

Packaging

- Bulk tanker loads (where appropriate)
- 1 000 litre containers



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Application guidelines

Use

This grinding aid is used in accordance with SANS 50197-1 (ENV 197-1) and formulated to improve the grinding of limestone based cement and Cem I. **CHRYSO®AMA 55 L** is a grinding aid activator that is geared to maximise limestone addition, while maintaining late strengths.

Dosage

- It is suggested that 0,2 ℓ to 0,5 ℓ of **CHRYSO®AMA 55 L** is used per tonne of fresh feed.
- Industrial trials are required to determine the optimum dosage.
- **CHRYSO®AMA 55 L** is a ready to use liquid grinding aid that may be applied onto the feed conveyor belt and as such, a dosing pump is recommended in order to introduce the correct dosage into the mill.
- Dosages in excess of 0,7 ℓ per tonne should be avoided.

Precautions

- In certain circumstances, **CHRYSO®AMA 55 L** may cause an increase in the air contents.
- Trials should be conducted and air contents checked before full scale production is undertaken.

Storage

CHRYSO®AMA 55 L 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 -15 °C.

Health and safety

This product is classified as harmless.

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.