



## Technical data sheet

# CHRYSO®AEM

## Grinding aid – air entrainer for masonry cement

### Description

**CHRYSO®AEM** is a grinding aid specifically formulated to entrain air into masonry cement and improve the waterproofing characteristics of mortar and plaster.

### Advantages

- Better control of air contents with optimised bubble size and spacing and good water retention properties.
- Easier and more thorough mortar mixing.
- Improved trowelability, flowability and water tightness.
- Reduces plastic shrinkage in plaster due to improved water retention (a result of the air entrainment).
- Increased mill production (10% to 20%) – depending on the efficiency of the equipment and the characteristics of the material to be ground.
- Improved performance in both closed and open circuit systems, at equal specific surface area or equal sieve residues.
- Reduction of cement agglomeration on the media, diaphragm, liners and the separator.
- Powder flow characteristics are improved before, during and after storage – resulting in improved packing times and packing consistency.

### Physical and chemical properties

- Physical state (20°C): liquid
- Colour: light yellow to brown
- Specific gravity (20°C): 1,020 (±0,010)
- pH (20°C): 9 to 12



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#### Application guidelines

##### Use

This grinding aid is used in accordance with masonry cement SANS 50413-1 (ENV 413-1).

**CHRYSO® AEM** is specifically designed to entrain air in masonry type cement and is used in both open and closed circuit cement finishing mills.

##### Dosage

- It is suggested that 0,8 ℓ to 2 ℓ of **CHRYSO® AEM** is used per tonne of fresh feed.
- Industrial trials are required to determine the optimum dosage.
- **CHRYSO® AEM** is a ready to use liquid grinding aid that may be applied directly into the mill or 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 3 ℓ per tonne should be avoided.

##### Storage

- **CHRYSO® AEM** 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 0°C.

##### Packaging

Bulk tanker loads

1 000 litre containers

##### Health and safety

This product is classified as an irritant. **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.

