# MC-CA (Enhancer agent)

## Cement Grinding Aid

## Early strength development enhancer.

**PRODUCT PROPERTIES:**

- Increasing early strength development equally.
- Preventing agglomeration of cement particles and adhesion to milling media.
- Increasing Blaine Value and milling output.
- Reducing clinker-factor of cement.
- Allows more limestone to be used in cement production.
- Reducing CO2 emission.
- High grinding efficiency at low dosage.
- Reduction of energy cost.

**AREAS OF APPLICATION:**

- Grinding of cements according to EN 197-1 and High Alumina Cement.
- Grinding of cements according to ASTM C150 / C595.
- Grinding of cements according to TCVN 5439.
- Ball mill, Vertical Mill and Horomill.

**APPLICATION NOTES:**

- **MC-CA (Enhancer agent)** is a special formulated cement additive to enhance early and late strengths equally. The additive reacts directly and effectively with the main clinker constituents to influence the mechanical / strength properties.
- It enables the reduction of the clinker factor while maintaining the required cement quality. Thus, **MC-CA (Enhancer agent)** allows the adjusting of the cement composition, to achieve utmost cost saving, due the increase of the extender proportion, particularly in limestone extended cements. This may result in a remarkable contribution to the reduction of CO2 emission.
- **MC-CA (Enhancer agent)** also contains organic compounds, which prevents the agglomeration tendency of clinker particles, by influencing its surface polarity. The result is the increase of milling output and cement fineness (Blaine Value). The achievable energy cost saving rate depends on the efficiency of the milling equipment and the quality the raw materials.
- Directions for use: The cement additive can be pumped directly into the mill or applied to the raw materials on the feeding conveyer belt. A dosing pump is required to introduce the correct dosage. The recommended dosage range varies from 0.2 - 0.6 per 1000 kg of cement. The ideal dosage is determined by carrying out industrial trials.
- Do not mix the cement additive with other products.
- Safety instruction: **MC-CA (Enhancer agent)** does not present a physical nor an environmental hazard. However, it can cause eye irritations and allergic reactions. General safety principles such as wearing gloves and goggles while handling the cement additive have to be observed.



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## TECHNICAL DATA:

| Characteristic | Unit | Value | Comments |
|---|---|---|---|
| Density | g/cm³ | 1.1 ± 0.05 | DIN 53479 |
| pH-Value | | 11 ± 2 | |
| Alkali content | % | < 1.0 | NaOH equivalent |
| Dosage | kg | 0.2 – 0.6 | Per 1000 kg of cement |

* All technical values relate to 21 ± 2°C.

## PRODUCT CHARACTERISTICS:

| | |
|---|---|
| **Color** | Clear |
| **Physical state** | Liquid |
| **Cleaning** | Spillage of the cement additive can be removed with water. |
| **Packaging** | 1000 L IBC |
| **Shelf-life & Storage** | Store in cool and dry area, avoid direct sunlight exposure. This product may form crystals at temperature below 20°C. If crystallization occurs, agitate and store it at higher temperature until reconstituted.<br>The shelf life is minimum 12 months when stored under above mentioned conditions. |
| **Disposal** | Packages must be emptied. |

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

Color: Admixture's color can be changed due to the creation between polymer component within admixture's composition with UV from sunlight. This phenomenon does not affect to admixture's quality in its shelf-life. We recommend users to store product into covered area to protect from direct sunlight in order to avoid mentioned changing.



Edition **02/2025**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.



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