

# MC-PowerGrind 671

## CEMENT GRINDING AID

Increase early and ultimate strength of cement.

### PRODUCT PROPERTIES:

- Increasing early and late 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:

- Grind all types of cement according to EN 197-1 standard from type I to type V and high-aluminum cement.
- Grind all types of cement according to ASTM C150 / C595.
- Grind all types of cement according to TCVN 5439.
- Suitable for ball mill, vertical mill and horromill.

### APPLICATION NOTES:

- **MC-PowerGrind 671** 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-PowerGrind 671** 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-PowerGrind 671** 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 of 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.
- **MC-PowerGrind 671** 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.
- Store the cement additive in a dry and cool area and avoid direct sunlight exposure.

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**TECHNICAL DATA:**

Characteristic	Unit	Value	Comments
Density	g/cm <sup>3</sup>	1.078 ± 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	Brown-Black
Physical state	Liquid
Cleaning	Spillage of the cement additive can be removed with water.
Packaging	1000 L IBC
Storage	Do not mix with other products. 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. The shelf life is minimum 12 months when stored under above mentioned conditions.
Disposal	Packs must be emptied.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition **11/23**. 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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