

Product Data Sheet

CastAid CEM 810

Nov-2025, Ver. 01.01



High-Performance Quality Enhancer – Improved Flowability and Particle Size Distribution

DESCRIPTION

CastAid CEM 810 is an advanced cement additive engineered to elevate the performance of the cement production process. Tailored for optimized grinding efficiency and enhanced cement flowability, it delivers superior results in the production of Portland or blended hydraulic cements.

TYPICAL USES

CastAid CEM 810 is recommended for the production of Ordinary Portland Cements (OPC) and blended cements using fly ash, GGBFS and other pozzolanic materials.

ADVANTAGES

Key advantages:

- Minimizes agglomeration and reduces cement grinding costs and specific energy consumption, amplifying mill productivity
- Addresses pack-set index challenges such as silo blockages and cake formation, for a more efficient production flow
- Improves separator and classifier efficiency and the flowability of the cement transportation system
- Enhances flowability of cement powder in storage silos, optimizing bulk dispatch and handling
- Refines cement particle size distribution (PSD), a critical factor in final product quality
- Active molecules interact consistently with cement, improving workability, early strength and later compressive strength by up to 30%

STANDARDS

CastAid CEM 810 meets the requirements of ASTM C465-85.

TYPICAL PROPERTIES

Typical properties at 25°C:

Component	Single
Form	Liquid
Colour	Light brownish
Specific Gravity (ASTM D1475)	1.04 – 1.10
Chloride Content (EN 480-10)	< 0.10%

APPLICATION

CastAid CEM 810 is a ready-to-use liquid additive. Industrial trials are recommended to determine the ideal dosage for specific requirements.

It can be introduced directly into the mill or onto the feed conveyor belt. For continuous processes, dose with a volumetric dosing pump to ensure a consistent output and precise application.

DOSAGE

Typical dosage rates of **CastAid CEM 810** are between 0.20 – 1.0 kg per tonne of cement (0.02 – 0.10% by weight of cement). Dosage may vary depending on clinker type, type of cement mill, desired mill output and cement performance.

The optimum dosage rate should be determined during full-scale cement mill tests.

COMPATIBILITY

CastAid CEM 810 is compatible with all types of Portland cement and blended cement replacement materials such as GGBS, PFA and limestone, and with all CasTech range concrete admixtures.

PRECAUTIONS

Do not mix with other products without advice from the manufacturer. Should the product freeze, some crystals may appear, which will disappear on agitation or when the temperature rises above freezing.

PACKAGING

CastAid CEM 810 is available in IBC, 200 kg drums and bulk tanks upon request.

STORAGE AND SHELF LIFE

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

HEALTH AND SAFETY

PPE: Suitable protective goggles, gloves and mask must be worn.

Precautions: In case of contact with eyes, rinse immediately with plenty of water; in case of contact with skin, wash off immediately with soap and water. If swallowed, seek medical attention immediately.

Hazard: Regarded as non-hazardous for transportation.

Disposal: Do not reuse containers. Dispose of as per local rules and regulations.

Additional information: Refer to MSDS (available on request).

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TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on projects when requested. Technical data sheets on

other CasTech products and guidance on their use are available on request.

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