

Product Data Sheet

CastAid CEM 855

Nov-2025, Ver. 01.01



High-Performance Early Strength Enhancer for Ordinary Portland and Blended Cements

DESCRIPTION

CastAid CEM 855 is a specially formulated performance enhancer designed to accelerate early strength development in the production of both Portland and hydraulic cements. It provides a tailored solution for cement manufacturers seeking to optimize their processes.

TYPICAL USES

CastAid CEM 855 is recommended for the production of Ordinary Portland Cements (OPC) and blended cements using fly ash, GGBFS and other pozzolanic materials.

ADVANTAGES

Key advantages:

- Enhanced early strength and accelerated setting time of cement
- Boosted mill productivity through reduced cement grinding costs
- Improved efficiency of separator and classifier systems
- Improved specific energy consumption for greater operational efficiency
- Minimized cement agglomeration during grinding
- Decreased pack-set index (PSI), reducing silo blockage and cake formation
- Improved powder flowability for bulk transportation of cement
- Optimized cement particle size distribution (PSD) for improved product quality

STANDARDS

CastAid CEM 855 meets the requirements of ASTM C465-85.

TYPICAL PROPERTIES

Typical properties at 25°C:

Component	Single
Form	Liquid
Colour	Brown liquid
Specific Gravity (ASTM D1475)	1.07 ± 0.03

APPLICATION

CastAid CEM 855 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 855** 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 and actual plant use to meet the desired requirement.

COMPATIBILITY

CastAid CEM 855 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 855 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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