



PACTOCem Aid 819

Grinding Aid for Cement Productivity and Pack-set reducer

Description

PACTOCem Aid 819 is an aqueous solution of liquid dispersants added to the cement mill at milling stage as a grinding aid and pack-set inhibitor for the production of Portland and blended hydraulic cements to improve cement productivity.

Recommended for

PACTOCem Aid 819 is recommended for the production of:

- Ordinary Portland Cement (OPC),
- Blended cements using Fly Ash, GGBFS and other Pozzolonic materials
- Other hydraulic cements

Features and Benefits

PACTOCem Aid 819 helps to neutralize electrostatic residual forces produced on the cement particle surfaces during clinker grinding in the cement mill to reduce agglomeration and reduction in ball and liner coating which results in improved mill grinding efficiency. **PACTOCem Aid 819** is able to provide following benefits to the cement producers:

- Increases mill productivity by reducing cement grinding cost and specific energy power consumption.
- Reduces cement agglomeration during grinding process in the cement mill and pack-set Index (PSI) in the storage silos reducing silo blockages and cake formation.
- Increases separator and classifier efficiency.
- Enhances cement transportation system flowability.
- Improves cement powder flowability in storage silos improving bulk dispatches efficiency.
- Improves cement Particle Size Distribution (PSD) and strength

Product Specification

Density (g/cm ³) (20°C)	1.0 – 1.20
Chloride Content % (EN 480-10)	< 0.1
Colour	Brownish liquid
Homogeneity	Homogeneous



Technical Details

PACTOCem Aid 819 helps to increase cement mill output up to 20% however industrial field cement plant trials are recommended to optimize PACTOCem Aid 819 dosage to achieve desired Cement mill performance.

PACTOCem Aid 819 is suitable for use in Ball Mill and Vertical Roller Mill (VRM).

PACTOCem Aid 819 grinding aid contains special chemical catalysts that react with the cement to enhance the hydration process resulting in better early and ultimate compressive strengths.

Compatibility

PACTOCem Aid 819 is compatible for use with all types of Portland cement and blended cement replacement materials like GGBS, PFA and limestone. **PACTOCem Aid 819** is compatible to all PACTO range concrete admixtures

Dosage Guidelines

PACTOCem Aid 819 guideline dosage is 0.02-0.1% by weight of cement. Dosage may vary depending on clinker type, Type of cement mill, desired mill output and cement performance. **PACTOCem Aid 819** dosage shall be optimized during plant field trials and actual plant use to meet desired requirement. Please contact PAC Technologies technical department for **PACTOCem Aid 819** dosage use outside guideline dosage range.

As an alternative, it is possible to add **PACTOCem Aid 819** on clinker belt conveyor along with separate water line before addition for better dispersion of the product in the mil. Plant trials are recommended before actual cement plant use. Please contact PAC Technologies technical department for more details.

Technical services

PAC Technologies technical experts are available at all the time for technical assistance and troubleshooting.

Packaging

PACTOCem Aid 819 is supplied in 205 Litres drums, 1000 Litres IBCs tanks and Bulk tanker supply. It does not contain flammable materials.



Dispensing

PACTOCem Aid 819 is normally added on the clinker material belt conveyor before cement grinding mill using suitable metering pump dispensing system. The **PACTOCem Aid 819** can be added to cement mill first chamber however addition location shall be decided jointly depending on actual plant condition.

Standard Compliance

PACTOCem Aid 819 has been widely used in cement industry and complies with ASTM C465-85 as a non-harmful processing addition.

Storage

PACTOCem Aid 819 shall be stored in covered storage area in clean dry tanks where temperature does not drop below freezing.

Shelf Life

PACTOCem Aid 819 can be stored up to 12 months in its original manufacturer's containers.

Safety Precautions

The usual precautionary measures should be adhered to handling the chemicals. Skin and Eye Contact: The affected area should be washed with plenty of water and soap. During the handle of the product, should use protective gloves.



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