



# PACTOCem Aid AE5000

Air entraining additive for Masonry Cement

## Description

**PACTOCem Aid AE5000** is specially formulated and most effective air entraining additive for controlled air entraining in the production of air entrained ordinary Portland cement and masonry cements. **PACTOCem Aid AE5000** is added to cement mill at milling stage as an additive to produce air entrained cements for increased durability and resistance to damage by frost and de-icing salts, and to improve the cohesion, rendering and workability of cements.

## Recommended for

**PACTOCem Aid AE5000** is recommended for the production of:

- Ordinary Portland Cement (OPC) with controlled air entrainment,
- Masonry cement to improve cohesion, workability and rendering properties with reduced segregation and bleeding of cement paste

## Features and Benefits

**PACTOCem Aid AE5000** is a chloride - free additive based on anionic and non-ionic surfactants. It reacts on the cement particles interface and mixing water to produce micro air bubbles uniformly distributed across the cement mortar paste to enhance cohesion and rendering properties at low consistency.

Micro-bubbles acts as a ball bearing increasing workability and rendering of the cement paste.

- Reduced segregation and bleeding in the cement paste for enhanced workability and plaster rendering effect with uniform air stability.
- Stable and uniform textured finish to cement paste

## Product Specification

Density (g/cm <sup>3</sup> ) (25°C)	1.02 – 1.06
Chloride Content % (EN 480-10)	< 0.1 (Nil to BS5075)
Colour	Light Brownish liquid
Homogeneity	Homogeneous



# PACTOCem Aid AE5000

## Technical Details

**PACTOCem Aid AE5000** helps to increase stable air content in range of 18 – 25% depending on the dosage used by weight of cement to produce air entrained cements for increased durability and resistance to damage by frost and de-icing salts, and to improve the cohesion and workability of cements.

**PACTOCem Aid AE5000** is suitable for use in Ball Mill and Vertical Roller Mill (VRM).

## Compatibility

**PACTOCem Aid AE5000** is compatible for use with all types of Portland cement and blended cement replacement materials like GGBS, PFA and limestone. **PACTOCem Aid AE5000** is compatible to all PACTO range concrete admixtures

## Dosage Guidelines

**PACTOCem Aid AE5000** guideline dosage is 0.02-0.08% by weight of cement to achieve desired air content. Dosage may vary depending on clinker type, Type of cement mill, desired mill output and cement performance. **PACTOCem Aid AE5000** dosage shall be optimized during plant field trials and actual plant use to meet specific requirement.

Dosage outside or doubled guideline dosage range may result in excessive air content, delayed setting and reduction in the compressive strength. Please contact PAC Technologies technical department for **PACTOCem Aid AE5000** dosage use outside guideline dosage range.

## Technical services

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

## Packaging

**PACTOCem Aid AE5000** is supplied in 205 Litres drums, 1000 Litres IBCs tanks and Bulk tanker supply. It does not contain flammable materials.



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## Dispensing

**PACTOCem Aid AE5000** is normally added on the clinker material belt conveyor before cement grinding mill using suitable metering pump dispensing system. The PACTOCem Aid AE5000 can also be added to cement mill first chamber however addition location shall be decided jointly depending on actual plant condition.

## Standard Compliance

**PACTOCem Aid AE5000** has been widely used in cement industry and complies with ASTM C465-85 as a non-harmful processing addition.

## Storage

**PACTOCem Aid AE5000** shall be stored in covered storage area in clean dry tanks where temperature does not drop below freezing.

## Shelf Life

**PACTOCem Aid AE5000** 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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