

Technical Data Sheet:

AdoCem III @306

Strong Impacting Early Age Strength Enhancer

Description

AdoCem© III @306 is an cement additive used as an cement ingredient, accordingly to BIS, ASTM, EN, in order to improve the manufacture and the properties of Cement. AdoCem© III @306 is an strong grinding aid and strong impacting late age strength enhancer with the aim to increase productivity between 5-15% and to increase late strength between 10-20%, in order to reduce specific power consumption up to 3 units and decrease the clinker factor up to 5%. Depending on Dosage, Clinker-Chemistry, SCM's and Mill facility circumstances. AdoCem© III @306 is an aqueous solution of selected very pure raw materials to suit the requirements of the cement manufacturer.

Physical properties

Appearance transperent, slightly milky, liquid

Density (g/l) 1,042 ± 0,05 g/cm³

pH 11,82 ± 1

Benefits

AdoCem© III @306 is a grinding aid for cement, which reduces the tendency of agglomeration of the fine particles, released during the comminution process.

AdoCem© III @306 permits improvements of the flowability of the finished cement, of the efficiency of the mill and separator and thus increases the production rate with a corresponding reduction in grinding energy consumption.

Cements produced with AdoCem© III @306 have a lower pack-set tendency and hence can provide advantages during loading and unloading operations.

AdoCem© III @306 improves the particle size distribution and activates the hydration kinetics, and thus increases the late strength of the treated cement.

The resulting enhanced performance can be used to meet specific market needs or, if desired, to reduce cement fineness and lower unit production costs, or to reduce the clinker factor, by using increased levels of supplementary cementitious material like fly ash, slag, or phosphorous gypsum, or change, respectively substitute the fuel while retaining the previous cement performance characteristics.



ADOC

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Recommended dosing rate:

According to AdoCem© experiences and best practices the addition rate of AdoCem© III @306 is typically in the range of 100-200 g/t of treated cement.

However the optimum addition rate of AdoCem© III @306 depends on the characteristics of the material and the grinding circuit and is normally assessed through industrial tests.

AdoCem© personnel are available for assistance.

Deviation from the optimum cannot guarantee the expected results and could have an impact on the cement characteristics.

Overdosing can lead to a reduction in mill retention time and a possible loss of grinding efficiency, together with “mill flushing”, excessive flowability, as well as undesired modifications of cement properties.

Certification

AdoCem© III @306 meets all requirements according to BIS, ASTM, EN.

Typical applications

AdoCem© III @306 can be used for grinding of all types of cements in all types of grinding systems, including those with ball mills, open and closed circuit, roller press, horizontal roller and vertical roller mills.

Main applications are:

- OPC
- PPC
- PCC
- White Cement

How to use

AdoCem© III @306 should be added on to the feed belt or injected or sprayed pure or diluted (also with the cooling water) into the mill. For an accurate proportioning of AdoCem© III @306 a volumetric metering pump is suitable.

AdoCem© personnel are available for assistance.



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Packaging and Storage

AdoCem© III @306 is supplied in 200 litre, 210 litre, 220 litre drums, in 1000 litre plastic containers IBC or in bulk. Due to logistic, traffic, supply chain and environment, we would prefer to deliver our products in bulk.

AdoCem© III @306 does not require any particular precaution for storage. However it should be protected from freezing or excessive hot conditions. For tanks and containers placed outside in cold conditions a heating system or a re-mixing device is recommended. It is also advisable to insulate exposed pipelines.

Shelf life is at least 24 months if stored in sealed manufacturer's containers

Handling precautions

AdoCem© III @306 does not require any particular precaution for health and safety, however, gloves and glasses should be worn during handling.

"Hazard description: Not applicable. Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version."

Relevant R-phrases	R 36/38 Irritating to eyes and skin.
	R 52 Harmful to aquatic organisms

Accidental release or spillage to be absorbed with an inert, non combustible material, such as sand or sawdust. Tanks and container can be cleaned with water.



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