

Technical Data Sheet:

AdoCem II @207

Strong Impacting Early Age Strength Enhancer

Description

AdoCem© II @207 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© II @207 is an strong grinding aid and strong impacting early age strength enhancer with the aim to increase productivity between 5-15% and to increase early strength between 20-40%, 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© II @207 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)	1,252 ± 0,05 g/cm ³
pH	10,62 ± 1

Benefits

AdoCem© II @207 is a grinding aid for cement, which reduces the tendency of agglomeration of the fine particles, released during the comminution process.

AdoCem© II @207 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© II @207 have a lower pack-set tendency and hence can provide advantages during loading and unloading operations.

AdoCem© II @207 improves the particle size distribution and activates the hydration kinetics, and thus increases the early 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.



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Recommended dosing rate:

According to AdoCem© experiences and best practices the addition rate of AdoCem© II @207 is typically in the range of 500-1100 g/t of treated cement.

However the optimum addition rate of AdoCem© II @207 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© II @207 meets all requirements according to BIS, ASTM, EN.

Typical applications

AdoCem© II @207 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
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How to use

AdoCem© II @207 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© II @207 a volumetric metering pump is suitable.

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