

# AdoCem II XP

Technical Data Sheet:



## Strong Impacting Early Age Strength Enhancer

### Description

AdoCem® II XP is a cement additive used as a cement ingredient, according to BIS, ASTM, EN, in order to improve the manufacture and the properties of Cement. AdoCem® II XP is a strong Activating and strong impacting early age strength performance enhancer with the aim to increase early strength between 20-40%, in order to decrease the clinker factor up to 5% to 7%. Depending on Dosage, Clinker Chemistry, SCM's and Mill facility circumstances. AdoCem® II XP is an aqueous solution of selected very pure raw materials to suit the requirements of the cement manufacturer.

### Physical properties

Appearance transparent, slightly milky, liquid

Density (g/l)  $1,25 \pm 0,1 \text{ g/cm}^3$

pH  $8 \pm 1$

### Benefits

AdoCem® II XP is not meant as a typical grinding aid for cement. However part of it can impact the grinding contribution, which may reduce the tendency of agglomeration of the fine particles, released during the comminution process.

AdoCem® II XP may permit 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 XP may have a lower pack-set tendency and hence can provide advantages during loading and unloading operations.

### **AdoCem® II XP improves and activates the hydration kinetics physically and chemically 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 materials like fly ash, slag, or phosphorous gypsum, or change, respectively substitute the fuel while retaining the previous cement performance characteristics.



### **ADOCEM Products Private Limited**

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## **Recommended dosing rate:**

According to AdoCem© experiences and best practices the addition rate of AdoCem© II XP is typically in the range of 200-1200 g/t of treated cement.

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

## **Typical applications**

AdoCem© II XP 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 and combination of any mill system mentioned.

Main applications are:

- OPC
- PPC
- PCC
- PSC
- White Cement

## **How to use**

AdoCem© II XP 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 XP a volumetric metering pump is suitable.



AdoCem© personnel are available for assistance.



## Packaging and Storage

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

AdoCem© II XP is not flammable.

"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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