

MasterPozzolith 311RD (Also known as Pozzolith 311RD)

Retarding type water reducing admixture for improving concrete

DESCRIPTION

MasterPozzolith 311RD is a ready-to-use liquid admixture for making better, more uniform concrete. It reduces the quantity of mixing water required to produce concrete of a given consistency while retarding the setting time to facilitate placing and finishing.

MasterPozzolith 311RD meets the requirements of BS5075 Part 1 and ASTM C494 Type B and D admixture.

FEATURES & BENEFITS

MasterPozzolith 311RD admixture aids in the production of concrete with these special properties :

- mild to extended retardation - depending on dosage
- reduced water content for a given consistency
- improved cohesiveness and workability
- better finishing characteristics
- plus all the basic benefits of a normal plasticiser
- increased strength - compressive, flexural and bond of concrete to steel
- greater economy in a mix for a given strength, slump and air content
- reduced cracking and permeability - improved watertightness
- greater resistance to salt water and sulphates
- increased durability

RECOMMENDED FOR

MasterPozzolith 311RD admixture is recommended for use in all types of concrete where moderate to extended retardation of set and improved performance are required or desired such as:

- Large pours to avoid cold joints and reduce thermal cracking
- Long hauls of readymixed concrete
- Hot weather concreting
- Slipform concrete for controlled and predictable setting time
- Precast and prestressed concretes

PERFORMANCE PROPERTIES

Rate of Hardening

The temperature of the concrete mix and the ambient temperature (forms, earth, reinforcement, air, etc.) affect the rate of hardening of the concrete. At higher temperatures concrete hardens more rapidly and may impose problems with placing and finishing of concrete. By varying the dosage of **MasterPozzolith 311RD**, concrete with a more desirable rate of hardening characteristics can be obtained.

A function of **MasterPozzolith 311RD** is to moderately retard the set of concrete. Within the normal dosage range, it will delay the set of concrete containing normal portland cement approximately 1 hour to 5 hours over the setting time of a comparable plain concrete mix depending on job materials and temperatures.

Since setting time is also influenced by the chemical and physical composition of the basic ingredients of the concrete, trial mixes should be made with the job materials approximating job conditions to determine the dosage required for a given degree of retardation.

DOSAGE

MasterPozzolith 311RD is recommended for use in the range 350-900 ml per 100kg cement depending on properties required. Where extended set retardation is required or accidental overdosing occurs, addition rates in excess of 900 ml per 100 kg of cement can be used with no adverse effect on the ultimate strength and durability of the concrete providing correct curing procedures are followed.

PACKAGING

MasterPozzolith 311RD is supplied in 205 litre (45 imperial gallon) sealed drums or bulk delivery for large offtake requirements.

TECHNICAL SERVICE

For additional information on **MasterPozzolith 311RD** or on its use in developing a concrete mix with special performance characteristics, contact your local BASF field representative or local office.

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**STATEMENT OF
RESPONSIBILITY**

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NOTE

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