

# MasterPozzolith<sup>®</sup> 3500

## High performance, retarding plasticiser for concrete

### Description of Product

**MasterPozzolith 3500** is a high performance, plasticising retarder beneficial in maintaining workability especially in high ambient temperatures.

### Primary Uses

Of particular value for ready-mixed concrete where high workability retention and retardation are of prime importance  
Hot weather concreting of all types  
Reduction in permeability, reducing effect of groundwater salts on concrete and steel  
To improve cohesion, workability and compatibility in concretes using poorly graded/shaped fine aggregates

### Typical Applications

In hot weather concreting where delays to initial and final set are important and where maximum slump retention is of concern – such as site-batched, pre-cast, and ready-mixed concretes.

### Advantages

Considerably improves the cohesion of concrete, reducing segregation and bleed water  
Of particular use where fine aggregates of poor grading and particle shape are evident  
Reduces placing problems in hot weather, through improved workability and workability retention  
Improved surface finish  
Improved trowellability  
Reduces honeycombing/cold joint effects  
Improves pumpability of concrete  
Reduces effects of various modes of attack on concrete and embedded steel through considerable reduction in permeability

### Compatibility

**MasterPozzolith 3500** can be used with all types of Portland cement including SRC. For use with other special cements, contact Master Builders Solutions 's Technical Services Department.

**MasterPozzolith 3500** should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **MasterPozzolith 3500**, they must be dispensed separately.  
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### Packaging

**MasterPozzolith 3500** is available in 1000ltr containers.

### Action

**MasterPozzolith 3500** acts efficiently on cement particles by combining the effects of a powerful plasticising/deflocculating agent and retarder.

### Typical Properties

Colour:	Dark brown liquid
Specific gravity:	1.165-1.185
Air-entrainment:	0-1% depending on dosage rate
Chloride content:	Nil to BS 5075:1982
Nitrate content:	Nil
pH:	5-7
Freezing point:	0°C; can be reconstituted if stirred after thawing
Flashpoint:	None

### Standards

ASTM C-494: Types B and D  
BS 5075: Part 1

### Directions for Use

Optimum performance is achieved when the admixture is added to the mixing water. Never add **MasterPozzolith 3500** to dry cement. No extension to normal mixing time is necessary.

# MasterPozzolith® 3500

## Dosage

Trials should be conducted to determine the optimum addition rates of **MasterPozzolith 3500**, depending on mix design proposed and mix performance requirements. As a general guide to these trials, a dosage range of 0.2-0.56ltr/100kg of cement is recommended as a starting point.

Depending on the desired properties, a dosage of up to 1000ml/100kg of cement can be used.

## Effects of Over Dosage

A severe over-dosage of **MasterPozzolith 3500** will result in the following:

- Retardation of initial and final set
- Slight increase in air-entrainment
- Increase in workability

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. The retarding effects of very high dosages will be exaggerated with SRC.

## Dispensing

**MasterPozzolith 3500** should be dispensed through a proprietary dispenser, such as is available from Master Builders Solutions .

## Setting Times

**MasterPozzolith 3500** acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperatures.

## Specification Clause

**MasterPozzolith 3500**, a retarding and plasticising concrete admixture manufactured by Master Builders Solutions or similar approved, to the following specification:

**MasterPozzolith 3500** is to be used in all concrete at a dosage range of 200ml to 560ml/100kg of Cement in accordance with the manufacturer's instructions.

Specific gravity  $1.150 \pm 0.005$

Complying with specification type:

ASTM C-494 Types B and D and BS 5075

Part 1

Composition: High molecular weight refined lignosulphonates and synthetic retarders.

## Storage

Store under cover, out of direct sunlight and protect from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, consult Master Builders Solutions 's Technical Services Department.

## Shelf Life

Up to 24 months if stored according to manufacturer's instructions in unopened containers.

## Safety Precautions

**MasterPozzolith 3500 is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information, refer to the material safety data sheet. Note**

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods

## Quality Statement

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

\* Properties listed are based on laboratory controlled tests.

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**Master\_Builders\_Solutions\_CC-EG//M Pozzolith\_3500\_1LS\_06/18**

