

MasterPozzolith[®] 20STD

Water reducing plasticiser for concrete

DESCRIPTION

MasterPozzolith 20STD is a powerful plasticiser which deflocculates and disperses the cement particles within a concrete mix. It can be used to improve workability, without the addition of extra water, or to allow reductions in the free water content of the concrete mix.

PRIMARY USES

- To increase / extend workability.
- To increase compressive strength.
- To effect cement economies.
- For hot weather concreting.
- To reduce water content.

TYPICAL APPLICATIONS

- In pre-stressed concrete.
- In areas of congested reinforcement where high workability is of benefit.
- In pre-cast concrete manufacture.
- In concrete brick and block manufacture.
- Wherever reduced water content would be of benefit to reduce permeability.
- In hot weather to extend workability.

ADVANTAGES

- Significantly improves the workability therefore easing placing
- Improves the cohesive properties of the concrete helping to reduce segregation and bleeding
- Allows water reduction in the region of 10% to be achieved whilst maintaining workability, thereby increasing strength, durability and impermeability
- Of particular benefit in hot climatic conditions when used to extend workability
- Enables economies in mix designs to be achieved thereby saving cement

PACKAGING

MasterPozzolith 20STD is available in bulk or in 210 litre drums.

STANDARDS

EN 934-2 Table 2
 ASTM C494: Types A & D
 BS 5075: Part 1 (superseded by EN 934-2)
 WRC - Use in potable water

TYPICAL PROPERTIES*

Colour:	Dark brown liquid
Specific gravity	1.188 at 25°C
Chloride content	"chloride free" to EN 934
Freezing point	0°C

APPLICATION GUIDELINES

MasterPozzolith 20STD should be added to the concrete mix during the mixing cycle at the same time as the water and the aggregates. Never add **MasterPozzolith 20STD** to the dry cement.

DOSAGE

Field trials should be conducted to determine the optimum addition rates of **MasterPozzolith 20STD**. A dosage range of 280ml to 560ml per 100kg cement is recommended as a starting point. For hot weather concreting where **MasterPozzolith 20STD** is to be used to extend workability, a dosage of 400ml to 800ml per 100kg cement is recommended.

COMPATIBILITY

MasterPozzolith 20STD can be used with all types of Portland cement including sulphate resisting. For use with other special cements, contact Master Builders Solutions Technical Services Department.

MasterPozzolith 20STD should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **MasterPozzolith 20STD** they must be dispensed separately.

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EFFECTS OF OVER DOSAGE

A severe over-dosage of **MasterPozzolith 20STD** will result in the following:

- Retardation of initial set.
- Increase in air entrainment.
- Increase in workability.

Providing concrete is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete.

DISPENSING

MasterPozzolith 20STD should be dispensed through a proprietary dispenser. Details are available on request from Master Builders Solutions Construction Chemicals LLC.

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 consults Master Builders Solutions Technical Services Department.

HEALTH AND SAFETY

MasterPozzolith 20STD 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.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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