

MasterPozzolith[®] 10

Low dosage retarding and plasticising admixture for concrete

DESCRIPTION

MasterPozzolith 10 is a liquid admixture which acts on the cement particles in the mix, combining the effects of a powerful plasticiser and deflocculating agent with controlled retardation.

ADVANTAGES

- Considerably extends vibration limit of concrete mixes thus reducing incidence of honeycombing and cold joints.
- Reduces placing problems in hot weather concreting by improving workability and workability retention.
- Improves trowellability and surface finish.
- Improves pumpability of concrete.
- Considerably reduces permeability.
- Enables economies in mix designs to be achieved.

PACKAGING

MasterPozzolith 10 is available in bulk or in 210 litre drums.

STANDARDS

EN 934-2 Table 10
 ASTM C-494: Types A, B, & D
 BS 5075: Part 1 (superseded by EN 934-2)

TYPICAL PROPERTIES*

Colour	Dark brown liquid
Specific gravity	1.160 @ 25°C
Chloride content	"chloride free" to EN 934
Freezing point	0°C

APPLICATION GUIDELINES

MasterPozzolith 10 should be added to the concrete mix during the mixing cycle at the same time as the water or the aggregate. Never add **MasterPozzolith 10** to the dry cement. No extension to normal mixing times is necessary.

DOSAGE

In all cases we recommend trial mixes are carried out to determine the correct levels of admixture required to achieve the desired concrete properties. The following figures should be utilised as a starting point for these trials. For site batched concrete where extended vibration time and improved finishing properties are of prime importance, a dosage of between 160 and 280ml per 100kg of cement should be used as a starting point for the trials. For ready mixed concrete, extended concrete workability is of prime importance, a dosage of between 280 to 420ml per 100kg of cement should be used as a starting point.

Dependent on the desired properties, a dosage of up to 700ml per 100kg of cement may be utilised. Higher dosages may be required when certain combinations of materials and conditions are present.

EFFECTS OF OVER DOSAGE

A severe over dosage of **MasterPozzolith 10** 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 SR cement.

SETTING TIME

MasterPozzolith 10 acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperatures.

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COMPATIBILITY

MasterPozzolith 10 can be used with all types of Portland cement including Sulphate Resisting compatible with cementitious materials such as silica fume, fly ash and GGBS. For use with other special cements, contact Master Builders Solutions Technical Services Department.

MasterPozzolith 10 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **MasterPozzolith 10**, they must be dispensed separately. Consult Master Builders Solutions Technical Services Department for advice.

DISPENSING

MasterPozzolith 10 should be dispensed through a proprietary dispenser, such as is available from Master Builders Solutions.

STORAGE AND SHELF LIFE

MasterPozzolith 10 should be stored in closed containers or bulk tanks to protect from extremes of temperature. The shelf life is 12 months when stored as above.

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 Technical Services Department.

HEALTH AND SAFETY

MasterPozzolith 10 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 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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NOTE

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