

MasterPozzolith 390N

Water reducing multi dosage / plasticizer to produce low slump-loss flowable concrete

MATERIAL DESCRIPTION

MasterPozzolith 390N is a water reducing, plasticising admixture for the production of low slump loss, high workability concrete.

MasterPozzolith 390N is formulated for use over a wide dosage range. **MasterPozzolith 390N** can match the performance characteristics of many superplasticisers at a lower dosage and cost.

At the lower end of the dosage range **MasterPozzolith 390N** will substantially increase and extend workability at a given water cement ratio. Alternatively, the water cement ratio can be reduced whilst maintaining a given slump. The water reduction capability, slump and extension of workability, increase with dosage. At higher dosage rates, **MasterPozzolith 390N** will enable water reductions and the production of flowing concrete normally only available from superplasticisers.

PRIMARY USES

MasterPozzolith 390N is formulated for use by commercial ready-mix operators, who can benefit from its multiple role characteristics by minimising admixture stock.

TYPICAL APPLICATIONS

- In areas of congested reinforcement where high workability will ease placement and compaction.
- Hot weather concreting where extension of workability is beneficial.
- To effect reduction in the water cement ratio enabling either higher strength or cement economy.

PACKAGING

MasterPozzolith 390N is available in 1000 litre IBCs or in bulk.

COMPATIBILITY

MasterPozzolith 390N is compatible with all types of Portland cement including SRC and modified, Type II. For use with other special cement types or blends contact your Master Builders Solutions representative for advice.

TYPICAL PROPERTIES*

Properties listed are for guidance and are not a guarantee of performance.

Appearance	Brownish liquid
Specific gravity @25°C	1.170 -1.220
Chloride Content	"chloride-free" to EN 934-2

STANDARDS

EN 934-2 Tables 2 & 10
 ASTM C-494 type A & D

STRENGTH

Used to reduce the water cement ratio, **MasterPozzolith 390N** will improve all the desirable performance characteristics of hardened concrete: higher compressive strength and modulus; lower permeability, shrinkage, and creep.

DOSAGE

The normal range is 0.3-1.0 litre / 100 kg cement. Higher dosages may be required when certain combinations of materials and conditions are present or water reduction in excess of 15% is required.

In all cases, trial mixes should be carried out to determine the optimum dosage required to achieve the desired concrete properties.

DISPENSING

MasterPozzolith 390N is introduced into the mixer with the mixing water. The admixture works more efficiently if it is added to the dampened mix after 50-70% of the water has been introduced. No extension to normal mixing time is necessary. **MasterPozzolith 390N** should never be added to any dry materials.

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STORAGE

MasterPozzolith 390N must be stored in a place where the temperature does not drop below +5°C. If product has frozen, thaw by increasing at 3°C increments and agitate until completely reconstituted. 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' Technical Services Department.

SAFETY PRECAUTIONS

MasterPozzolith 390N is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information, refer to material safety data sheet.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

DISCLAIMER

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