

MasterPozzolith[®] RT 100

Set Retarding and Water Reducing Admixture

DESCRIPTION

MasterPozzolith RT 100 is a ready-to-use, liquid admixture for producing more uniform and predictable quality concrete. Placing and finishing requirements are facilitated because this admixture retards setting time. It is designed to meet ASTM C494 requirements for Type B Retarding and Type D Water-Reducing and Retarding Admixtures.

MasterPozzolith RT 100 will not initiate or promote corrosion of reinforcing steel in concrete. The admixture does not contain intentionally added calcium chloride or chloride-based ingredients.

RECOMMENDED USES

MasterPozzolith RT 100 is recommended for use in all types of concrete where retardation of set and improved performance are desired. e.g. plain, reinforced, precast or prestressed, concrete especially where placing by pump and when enhanced finishing is desired.

When air-entrained concrete is desired to further reduce segregation bleeding and permeability, **MasterPozzolith RT 100** can be used with air entraining admixtures manufactured by BASF Construction Chemicals.

When used in conjunction with other admixtures, each admixture must be dispensed separately into the mix.

FEATURES AND BENEFITS

MasterPozzolith RT 100 used at optimum dose rate modifies the performance of concrete to provide the following:

- reduced water content for a given workability
- superior slump retention
- controlled retardation - depending on the dose rate
- improved workability
- reduced segregation
- superior finishing characteristics for slabs and precast of off-form surfaces
- higher early and ultimate strengths - both compressive and flexural

TYPICAL PERFORMANCE DATA

Concrete produced with **MasterPozzolith RT 100** admixture will develop strength rapidly after initial set occurs. If retardation is within the normal ASTM C494 Types B and D specifications, the concrete

will develop higher early (24 hours) and higher ultimate strengths than plain concrete.

When used in steam-cured concrete, the length of the preset period should be increased until initial set of the concrete is achieved. The actual steam-curing period is then reduced accordingly to maintain existing production cycles without sacrificing early or ultimate strengths.

The cement content, initial slump, length of time in transit, temperature of the concrete mix and the ambient temperature (forms, earth, reinforcement, air, etc.) all affect the hardening rate of concrete. At higher temperatures, concrete hardens more rapidly which may cause problems with placing and finishing of concrete.

By varying the dosage of **MasterPozzolith RT 100**, concrete with a more desirable rate of hardening characteristic can be obtained.

APPLICATION

Dispensing

MasterPozzolith RT 100 can be added either:

- Undiluted solution or diluted solution of **MasterPozzolith RT 100**
- As **MasterPozzolith RT 100** solution is part of mixing water. Adjust mixing water content.

DOSAGE

Use at the rate of 400±100 ml per 100kg of cement for most concrete mixes using average concrete ingredients.

PACKAGING

MasterPozzolith RT 100 is available in bulk and 205L drums.

SHELF LIFE

MasterPozzolith RT 100 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

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PRECAUTIONS

Health : MasterPozzolith RT 100 does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MBCC Group 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

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