

MasterPozzolith 80 (Formerly known as Pozzolith 80)

Admixture for Improving Concrete

DESCRIPTION

MasterPozzolith 80 is a ready-to-use liquid admixture for making better, more uniform concrete. It reduces the quantity of mixing water required to produce concrete of a given consistency while retarding the setting time to facilitate placing and finishing.

It meets BS 5075 Part 1 and exceeds AS 1478, ASTM C494 Type B and D admixture.

RECOMMENDED FOR

MasterPozzolith 80 admixture is recommended for use in all types of concrete where moderate to extended retardation of set and improved performance are required or desired

- improves properties of pumped concrete, shotcrete (wet mix), and conventionally placed concrete.
- Improves plain, reinforced, precast, prestressed, lightweight or standard weight concretes.
- can be used with air-entraining agents approved under SAA, ASTM and AASHTO specifications when air-entrained concrete is specified or desired.

MasterPozzolith 80 may entrain a small quantity of air and will also improve the efficiency of most air entraining admixtures, generally resulting in the need for less

air-entraining agent. (Master Builders Solutions approved air-entraining admixture **MICRO-AIR VR** is recommended for use with **MasterPozzolith 80** admixture when air-entrained concrete is specified or desired. When used in conjunction with another admixture each admixture must be dispensed separately into the mix).

FEATURES AND BENEFITS

MasterPozzolith 80 admixture aids in the production of concrete with these special prop:

- mild to extended retardation - depending on dosage
- reduced water content for a given consistency
- improved cohesiveness and workability

- better finishing characteristics
- plus all the basic benefits of a normal plasticiser
- increase strength - compressive, flexural and bond of concrete to steel
- greater economy in a mix for a given strength slump and air content
- reduced cracking and permeability improved watertightness
- increased resistance to freezing and thawing of air entrained concrete
- greater resistance to salt water and sulphates
- increased durability

TYPICAL PERFORMANCE DATA

Rate of Hardening

The temperature of the concrete mix and the ambient temperature (forms, earth, reinforcement, air, etc.) affect the rate of hardening of the concrete. At higher temperatures concrete hardens more rapidly and may impose problems with placing and finishing of concrete. By varying the dosage of **MasterPozzolith 80**, concrete with a more desirable rate of hardening characteristics can be obtained.

A function of **MasterPozzolith 80** is to moderately retard the set of concrete. Within the normal dosage range, it will delay the set of concrete containing normal Portland cement approximately 1 hour to 5 hours over the setting time of a comparable plain concrete mix depending on job materials and temperatures.

Since setting time is also influenced by the chemical and physical composition of the basic ingredients of the concrete, trial mixes should be made with the job materials approximating job conditions to determine the dosage required for a given degree of retardation.

Compressive Strength

In comparison to plain concrete, a mix containing **MasterPozzolith 80** develops higher early and ultimate strengths. Exceeds strength requirements of AS 1478 and ASTM C494.

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DOSAGE

MasterPozzolith 80 is normally used at the rate of 300 - 1000 ml per 100 kg of cement. Other dosages may also be used depending on the specific working conditions.

Consult your local Master Builders Solutions field representative for assistance in determining the rate of dosage.

PACKAGING

MasterPozzolith 80 is available in 205L drums or bulk delivery.

SHELF LIFE

If **MasterPozzolith 80** admixture has frozen, thaw at 2 ° C (35 ° F or above and completely reconstitute by mild mechanical agitation. For additional information on **MasterPozzolith 80** or on its use in developing a concrete mix with special performance characteristics, contact your local Master Builders Solutions field representative.

PRECAUTIONS

Health: **MasterPozzolith 80** does not contain any hazardous substances requiring labeling,

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 in the product Material Safety Datasheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication is 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 commonwealth or State legislation. The owner, his representative or the contractor 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 verbally 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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