



The Chemical Company

POZZOLITH[®] 80

Admixture for Improving Concrete

DESCRIPTION

POZZOLITH 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.

FIELDS OF APPLICATION

POZZOLITH 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. **POZZOLITH 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. BASF approved air-entraining admixture MICROAIR VR is recommended for use with **POZZOLITH 80** 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

POZZOLITH 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 **POZZOLITH 80**, concrete with a more desirable rate of hardening characteristics can be obtained.

A function of **POZZOLITH 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 **POZZOLITH 80** develops higher early and ultimate strengths. Exceeds strength requirements of AS 1478 and ASTM C494.

DOSAGE

POZZOLITH 80 is normally used at the rate of 400 - 700 ml per 100 kg of cement. Other dosages may also be used depending on the specific working conditions.

Consult your local BASF Construction Chemicals representative for assistance in determining the rate of dosage.

PACKAGING

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

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SHELF LIFE

If **POZZOLITH 80** admixture has frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. For additional information on **POZZOLITH 80**, or on its use in developing a concrete mix with special performance characteristics, contact your local BASF Construction Chemicals representative.

PRECAUTIONS

Health: **POZZOLITH 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.

1-1-2-0208

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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 **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.
