



The Chemical Company

# POZZOLITH<sup>®</sup> 89

Extra Set Retarding Water Reducing Admixture

## DESCRIPTION

**POZZOLITH 89** is a powerful plasticiser which disperses and deflocculates cement particles while delaying the hydration process, thereby retarding the initial and final set. It can be used to improve workability without the addition of extra water, or to allow reductions in the free water content. Due to improved dispersion of the cement particles the process of hydration proceeds under the optimum conditions, leading to improved strength characteristics with or without reduction in free water.

### Compatibility

**POZZOLITH 89** can be used with all types of Portland cement including sulphate resisting (Type V). For use with other special cements, contact BASF Construction Chemicals Representative.

**POZZOLITH 89** should not be premixed with other admixtures. If other admixtures are to be used in concrete containing **POZZOLITH 89**, they must be dispensed separately. If in doubt, consult BASF Construction Chemicals representative.

## FIELDS OF APPLICATION

- High strength, high cement content, low W/C ratio mixes.
- Hot weather concrete where control of initial and final set is important.
- White cement concrete.
- Slipformed concrete, high strength mixes, to control set of concrete particularly in high
- temperature conditions, bridge building, prestressed concrete work, mass concrete including RCC.

## FEATURES AND BENEFITS

- Increases compressive, tensile and flexural strength of concrete.
- Increases density of concrete reducing permeability and thus increasing durability.
- Allows a reduction in free water in the region of 8-12%.
- Highly effective in high cement content low water cement ratio mixes where its use enables concrete to be made more workable without loss in strength, density and durability.
- Enables controlled extension of initial set.
- The retarding action allows continuous concrete pours to be made, thus reducing the number of construction joints needed.

- The strength gain of concrete containing **POZZOLITH 89** is enhanced. After retardation of initial and final set, a more rapid hardening of the concrete occurs, and the effect on stripping time is negligible.

## APPLICATION

### Dispensing

Directions for use **POZZOLITH 89** should be added to the concrete mix during the mixing cycle, at the same time as the water, or the aggregates. Never add **POZZOLITH 89** to the dry cement. No extension to normal mixing time is necessary.

### Dispenser

**POZZOLITH 89** should be dispensed through a proprietary dispenser.

## DOSAGE

Field trials should be conducted to determine the optimum addition rates of **POZZOLITH 89**. As a guide to these trials, a dosage range of 0.3 to 1.2% by cement weight is recommended as a starting point. Dosages outside this range can be used where improved workability, increased water reduction and / or further set retardation are required.

Effects of over dosage. A severe over dosage of **POZZOLITH 89** will result in:

- Increased retardation of initial and final set.
- Increase in workability.

Providing concrete is properly cured the ultimate strength of the concrete will not be adversely effected and will generally be higher than for normal concrete.

Care should be taken to allow for the affect on formwork pressures and on stripping times.

## PACKAGING

**POZZOLITH 89** is available in bulk or 210 litre drums.

## SHELF LIFE

Up to 2 years in unopened original packing. Store under cover, out of direct sunlight and protect from extremes of temperature. If found to be frozen, thaw it and reconstitute by stirring.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage please consult BASF Construction Chemicals Representative.

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## PRECAUTIONS

**POZZOLITH 89** is not a fire or health hazard. Spillages should be washed down immediately with cold water.

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

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### 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.

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