



The Chemical Company

POZZOLITH[®] STANDARD

Water reducing plasticiser for concrete

Description

POZZOLITH STANDARD is a powerful plasticiser which deflocculates and disperses the cement particles within a concrete mix. It can be used to improve workability, without the addition of extra water, or to allow reductions in the free water content of the concrete mix.

Primary uses

- To increase / extend workability.
- To increase compressive strength.
- To effect cement economies.
- For hot weather concreting.
- To reduce water content.

Typical applications

- In pre-stressed concrete.
- In areas of congested reinforcement where high workability is of benefit.
- In pre-cast concrete manufacture.
- In concrete brick and block manufacture.
- Wherever reduced water content would be of benefit to reduce permeability.
- In hot weather to extend workability.

Advantages

- Significantly improves the workability therefore easing placing.
- Improves the cohesive properties of the concrete helping to reduce segregation and bleeding.
- Allows water reduction in the region of 10% to be achieved whilst maintaining workability, thereby increasing strength, durability and impermeability.
- Of particular benefit in hot climatic conditions when used to extend workability.
- Enables economies in mix designs to be achieved thereby saving cement.

Packaging

POZZOLITH STANDARD is available in bulk or in 210 litre drums.

Compatibility

POZZOLITH STANDARD can be used with all types of Portland cement including sulphate resisting. For use

with other special cements, contact BASF ME's Technical Services Department.

POZZOLITH STANDARD should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing POZZOLITH STANDARD they must be dispensed separately.

Typical properties*

Colour:	Dark brown/black liquid
Specific gravity	1.168 – 1.185 at 25°C
Air entrainment:	1 to 2% dependent on grading of sand and water content.
Chloride content:	Nil to BS 5075 Part 1
Nitrate content:	Nil
Freezing point::	0°C. Can be reconstituted if stirred after thawing.
Flashpoint:	None

Standards

ASTM C494: Types A & D

BS 5075: Part 1

WRC - Use in potable water

Directions for use

POZZOLITH STANDARD should be added to the concrete mix during the mixing cycle at the same time as the water and the aggregates. Never add POZZOLITH STANDARD to the dry cement.

Dosage

Field trials should be conducted to determine the optimum addition rates of POZZOLITH STANDARD. A dosage range of 280ml to 560ml per 100kg cement is recommended as a starting point. For hot weather concreting where POZZOLITH STANDARD is to be used to extend workability, a dosage of 400ml to 800ml per 100kg cement is recommended.

Effects of over dosage

A severe over-dosage of POZZOLITH STANDARD will result in the following:

- Retardation of initial set.
- Increase in air entrainment.
- Increase in workability.

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

Adding Value to Concrete



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Dispensing

POZZOLITH STANDARD should be dispensed through a proprietary dispenser. Details are available on request from BASF ME.

Storage

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 BASF's Technical Services Department.

Safety precautions

POZZOLITH STANDARD is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information refer to the material safety data sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative. BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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