

POZZOLITH[®] 10N

Low dosage, retarding and plasticising admixture for concrete

Description of Product

POZZOLITH 10N is a liquid admixture which acts on the cement particles in the mix, combining the effects of a powerful plasticiser and deflocculating agent with controlled retardation.

Applications

- Hot weather concreting where controlled delay to initial set is of prime importance
- Ready-mix concrete where workability retention coupled with retardation of initial set are beneficial
- To improve cohesion, workability and compaction in concretes using poorly graded/shaped fine aggregates
- Large slabs or bridge decks, etc. where extension of vibration limits is beneficial to avoid cold joints

Advantages

- Considerably extends vibration limit of concrete mixes, thus reducing incidence of honeycombing and cold joints
- Reduces placing problems in hot weather concreting by improving workability and workability retention
- Improves trowellability and surface finish
- Improves pumpability of concrete
- Considerably reduces permeability
- Enables economies in mix designs to be achieved

Packaging

POZZOLITH 10N is available in 210ltr drums or 1000ltr bulk.

Typical Properties

| | |
|-------------------|--|
| Colour: | Dark brown/black liquid |
| Specific gravity: | 1.1 at 25°C |
| Air-entrainment: | Less than 1% |
| Chloride content: | Nil to BS 5075:1982 |
| Nitrate content: | Nil |
| Freezing point: | 0°C; can be reconstituted if stirred after thawing |
| Flashpoint: | Nil |

Standards

ASTM C-494: Types A and D

BS 5075: Part 1

Directions for Use

POZZOLITH 10N should be added to the concrete mix during the mixing cycle at the same time as the water or the aggregate. Never add POZZOLITH 10N to dry cement. No extension to normal mixing times is necessary.

Dosage

In all cases, we recommend trial mixes are carried out to determine the correct levels of admixture required to achieve the desired concrete properties.

POZZOLITH 10N is normally dispensed depending on the desired plasticising or water-reducing effect at a rate of 0.2-0.6ltr/100kg of cement.

Other dosages may be used, depending on the materials and conditions.

Setting Times

POZZOLITH 10N acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperatures.

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Compatibility

POZZOLITH 10N can be used with all types of Portland cement including SRC. For use with other special cements, contact BASF's Technical Services Department.

POZZOLITH 10N should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing POZZOLITH 10N, they must be dispensed separately. Consult BASF's Technical Services Department for advice.

Effects of Over Dosage

A severe over dosage of POZZOLITH 10N will result in the following:

- Retardation of initial and final set
- Slight increase in air-entrainment
- Increase in workability

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. The retarding effects of very high dosages will be exaggerated with SRC.

Dispensing

POZZOLITH 10N should be dispensed through a proprietary dispenser, such as is available from BASF.

Safety Precautions

POZZOLITH 10N 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.

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.

Shelf Life

Up to 24 months if stored according to manufacturer's instructions in unopened containers.

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 Statement

All products manufactured by BASF Egypt, or imported from BASF affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2000, ISO 14001:2004 & OHSAS 18001:1999 standards.

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