

POZZOLITH[®] LD10

Low dosage retarding and plasticising admixture for concrete

Description

POZZOLITH[®] LD10 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[®] LD10 is available in bulk or in 210 litre drums.

Typical properties *

Colour	Dark brown/black liquid
Specific gravity	1.040 – 1.310 @ 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, B, & D

BS 5075: Part 1

Directions for use

POZZOLITH[®] LD10 should be added to the concrete mix during the mixing cycle at the same time as the water or the aggregate. Never add POZZOLITH[®] LD10 to the 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. The following figures should be utilised as a starting point for these trials. For site batched concrete where extended vibration time and improved finishing properties are of prime importance, a dosage of between 160 and 280ml per 100kg of cement should be used as a starting point for the trials. For ready mixed concrete, extended concrete workability is of prime importance, a dosage of between 280 to 600ml per 100kg of cement should be used as a starting point.



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Dependent on the desired properties, a dosage of up to 700ml per 100kg of cement may be utilised. Higher dosages may be required when certain combinations of materials and conditions are present.

Setting time

POZZOLITH[®] LD10 acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperatures.

Compatibility

POZZOLITH[®] LD10 can be used with all types of Portland cement including Sulphate Resisting. For use with other special cements, contact BASF Technical Services Department.

POZZOLITH[®] LD10 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing POZZOLITH[®] LD10, they must be dispensed separately. Consult BASF Technical Services Department for advice.

Effects of over dosage

A severe over dosage of POZZOLITH[®] LD10 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 SR cement.

Dispensing

POZZOLITH[®] LD10 should be dispensed through a proprietary dispenser, such as is available from BASF.

Safety precautions

POZZOLITH[®] LD10 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. Shelf life is up to 2 years when stored as above.

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.



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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 BASF Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and BASF ESHQ recommendations.

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

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