

POZZOLITH® 390 P

Water reducing multi dosage / plasticiser to produce low slump loss flowable concretes. Chloride free.

Description

POZZOLITH 390 P is a water reducing, plasticising admixture for the production of low slump loss, high workability concrete.

POZZOLITH 390 P is formulated for use over a wide dosage range. POZZOLITH 390 P can match the performance characteristics of many superplasticisers at lower dosage and cost.

At the lower end of the dosage range POZZOLITH 390 P will substantially increase and extend workability of a given water cement ratio. Alternatively, the water cement ratio can be reduced whilst maintaining a given slump. The water reduction capability, slump and extension of workability, increase with dosage. At higher dosage rates, POZZOLITH 390 P will enable water reductions and the production of flowing concrete normally only available from superplasticisers.

Primary uses

POZZOLITH 390 P is formulated for use by commercial ready-mix operators, who can benefit from its multiple role characteristics by minimising admixture stock.

Typical applications

- In areas of congested reinforcement where high workability will ease placement and compaction.
- Hot weather concreting where extension of workability and controlled delays to initial set are beneficial.
- To effect reductions in the water cement ratio enabling either higher strength or cement economy.

Packaging

POZZOLITH 390 P is available in bulk or in 220 kg. drums and 1100kg. containers.

Compatibility

POZZOLITH 390 P is compatible with all types of Portland cement including SRC and modified, Type II. For use with other special cement types or blends contact your Degussa representative for advice.

Typical properties*

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

Colour:	Brown liquid
Specific gravity:	1.13—1.14 at 25°C
Chloride content:	Nil to BS 5075 Part 1
Freezing point:	0°C
Flashpoint:	N/A

Standards

POZZOLITH 390 P complies with the performance requirements of ASTM C-494 type B, D, and G.

Strength

Used to reduce the water cement ratio, POZZOLITH 390 P will improve all the desirable performance characteristics of hardened concrete: higher compressive strength and modulus; lower permeability, shrinkage and creep.

Dosage

The normal range is 0.3 - 1.0 ltr / 100 kg cement. Higher dosages may be required when certain combinations of materials and conditions are present or water reduction in excess of 15% is required.

In all cases, trial mixes should be carried out to determine the optimum dosage required to achieve the desired concrete property.

Dispensing

POZZOLITH 390 P is introduced into the mixer with the mixing water. The admixture works more efficiently if it is added to the dampened mix after 50 - 70% of the water has been introduced. No extension to normal mixing time is necessary. POZZOLITH 390 P should never be added to dry cement.

Storage

POZZOLITH 390 P must be stored in a place where temperature does not drop below +5°C. If product has frozen, thaw and agitate until completely reconstituted. 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 Degussa's Technical Services Department.

Safety precautions

POZZOLITH 390 P is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information, refer to material safety data sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Degussa representative.

Degussa reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.

04/2006 Degussa-IR