

POZZOLITH[®] 100HE

Non-Chloride hardening accelerator for concrete

Description

POZZOLITH 100HE is ready to use liquid accelerating admixture for use in concrete and portland cement. POZZOLITH 100HE admixture brings down setting times in general and specially under cold weather, leading to early high and ultimate increased strengths. In addition, it reduces bleed and segregation while improves workability.

POZZOLITH 100HE does not contain any added chloride ions ensuring that the product does not contribute to the corrosion of reinforcing steel. In fact studies indicate POZZOLITH 100HE helps in reduction of chloride attack on concrete.

Uses

POZZOLITH 100HE is formulated for use as accelerator to facilitate high early and higher ultimate strengths in concrete; also to speed up the setting times in normal or especially in cold weather concreting.

Typical applications include:

- Precast/ Prestressed concrete production
- Concrete pavement repairs
- Repairs of the industrial floors
- Repairs of concrete slabs and flat members
- Cold weather concreting
- Early de-stripping in cold weather

Advantages

- Reduced segregation
- Faster setting times – accelerated construction during cold climates
- High Early strengths – Early de-shuttering
- Early stiffening – Quicker finishing operations
- Facilitates concreting even below 5°C

Typical Properties

Aspect	: Colour less free flowing liquid
Relative Density	: 1.26 ± 0.02 at 25°C
pH	: ≥ 6
Chloride ion content	: < 0.2%

Standards

- ASTM C-494 Type C
- EN 934-2: T6 & T7
- IS 9103: 1999

Direction for use

POZZOLITH 100HE is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The dispersing of admixture shall be more uniform if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The

addition of POZZOLITH 100HE to dry aggregate or cement is not recommended.

Dosage

Optimum dosage of POZZOLITH 100HE should be determined with trial mixes. As a guide, a dosage range of 2 Litre to 5 Litre per cubic meter of concrete is recommended at normal temperatures. Higher dosages may be required when certain combinations of materials and conditions are present or acceleration is required at colder climatic conditions.

For addition information on POZZOLITH 100HE admixture or on its use in developing concrete mixes with special performance characteristics, contact your local BASF representative.

Compatibility

POZZOLITH 100HE is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers.

The effect of POZZOLITH 100HE is dependent upon the cement properties and the type of plasticizers used in the concrete mix. The setting time and early strength gain may be affected if strong retarders are used in the mix.

POZZOLITH 100HE is also compatible with slag and pozzolans such as fly ash and silica fume.

Corrosivity - Non Corrosive

POZZOLITH 100HE admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of POZZOLITH 100HE admixture. In all concrete application, POZZOLITH 100HE admixture will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

Rate of hardening

The temperature of the concrete mix and the ambient temperature (forms, earth, reinforcement,



The Chemical Company

air, etc.) affect the hardening rate of concrete. At higher temperatures, concrete hardens more rapidly which may cause problems with placing and finishing. One of the functions of POZZOLITH 100HE admixture is to accelerate the set of concrete. Within the normal dosage range, it will generally reduce the setting times of concrete containing normal portland cement approximately by 1 hour to 3 hours compared to a plain concrete mix, depending on materials at site and temperatures. Trial mixes should be made with site materials & approximating the job site conditions to determine the dosage required.

It is strongly recommended that concrete should be properly cured particularly in windy and dry climates.

The use of MASTERKURE 111CF, evaporation reducer to prevent quick moisture loss from the surface of the flat works such as pavements in the dry and windy climates is highly recommended.

Packaging

POZZOLITH 100HE is supplied in 245 kg drums or in bulk on request.

Storage and Shelf life

POZZOLITH 100HE must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months 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 your local BASF representative.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data

sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

TDS Ref. no. Pz1100HE/07/0109

BASF India Limited

Construction Chemicals Division

Plot No.37, Chandivali Farm Road, Chandivali, Andheri(East)

Mumbai – 400072 India

Tel: +91 22 28580200, Fax: +91 22 28478381

e-mail: basfcc@vsnl.net www.basf-cc.co.in

Page 2 of 2

