



The Chemical Company

POZZOLITH[®] NC534

Non chloride accelerating admixture

DESCRIPTION

Pozzolith NC 534 is a ready-to-use liquid admixture formulated to accelerate the setting time of concrete under cool winter conditions and to produce high-early strength in special application concrete. It does not contain added chloride and conforms to the most stringent chloride ion limits required by concrete industry standards. **Pozzolith NC 534** meets and exceeds AS1478 Type Ac requirements.

RECOMMENDED FOR

All types of concrete where a non-chloride type accelerator is beneficial:

- Cold weather concreting
- Concrete subject to chloride ion constraints such as high rise buildings in coastal environments
- Concrete placed on galvanised steel floor and roof systems which are left in place
- Precast concrete - either pretensioned or post-tensioned
- Concrete pipes and other manufactured concrete products such as tiles and blocks
- Concrete highway and bridge construction

FEATURES AND BENEFITS

Concrete with **Pozzolith NC 534** admixture has a significantly faster setting time than plain concrete. Increasing the dosage rate increases set acceleration.

Both the compressive and the flexural strengths of concrete with **Pozzolith NC 534** develop, more rapidly than with plain concrete.

Benefits to concrete construction and to the manufacture of concrete products because of this earlier setting and strength gain in cold weather include:

- *Earlier finishing of slabwork across a wide range of temperatures without the need for calcium chloride.*
- *More efficient scheduling, generally faster construction and earlier occupancy.*
- *Earlier stripping and re-use of forms for walls, precast work and other fast-track construction.*
- *Earlier structural use of concrete such as tilt-slab, paving, floors, car-park.*
- *Potential energy savings in steam cured concrete (precast, prestressed, blocks) by reducing curing temperatures and/or steaming time necessary to reach desired transfer strengths.*
- *Reduced labour costs.*

Pozzolith NC 534 contains no added chlorides which means it will not initiate or promote the corrosion of reinforcing steel.

Pozzolith NC 534 is used over a wide dose range of 300 to 1300 mls and above per 100kg of cementitious material. The dosage rate is dependent on the ambient concrete temperatures, cement chemistry and the amount of acceleration required.

The degree of set-acceleration increases with dose rates, allowing the concrete producer to control the setting rate of his product. Where mild acceleration with improved workability and finishing characteristics is required use at 300 to 500 mls per 100kg in conjunction with a low dose of a normal setting admixture such as 300mls per 100kg of **Pozzolith 370**. Where greater acceleration under extremely cold conditions, or where rapid setting is required use at 600 to 1300 mls per 100kg cementitious content.

COMPATABILITY

Pozzolith NC 534 can be used with air-entraining admixtures and other BASF Construction Chemicals admixtures to achieve cost-effective customised concrete performance. However, admixtures should be added separately into the initial batching water to ensure complete distribution throughout the mix. **Pozzolith NC 534** should not be used in conjunction with other admixtures supplied by other manufacturers unless specific test information is available.

PACKAGING

Pozzolith NC 534 is available in sealed 205 litre lined drums and bulk delivery.

NOTE FOR TEST LABORATORIES

Pozzolith NC 534 is designed to perform best in cold weather concrete. Tests conducted in laboratories at 23° +/- 2°C will not necessarily produce the degree of set acceleration that will be achieved in the field at lower temperatures.

PRECAUTIONS

Pozzolith NC 534 is stable in neutral and alkaline conditions. Avoid mixing or bringing it into contact with strong acid (such as hydrochloric/muriatic acid) in the presence of oxidising agents (e.g. hydrogen peroxide, nitrous acid compounds and sodium hypochlorite). Laboratory analysis involving degradation by strong acids or pre-treatment with oxidising agents should be performed in an efficient fume extraction cupboard.

QUANTITY TO USE



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All BASF Construction Chemicals Australia & New Zealand data sheets are updated on a regular basis, it is the user's responsibility to obtain the most recent issue APozzNC534/4/0906

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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