

POZZOLITH[®] 555

Non-chloride accelerating admixture

DESCRIPTION

POZZOLITH 555 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 555** meets and exceeds AS 1478.1 Type Ac and ASTM C494 Type C 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 pre-tensioned 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 555** 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 555** 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 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**

POZZOLITH 555 contains no added chlorides which means it will not initiate or promote the corrosion of reinforcing steel.

QUANTITY TO USE

POZZOLITH 555 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 concrete producers to control the setting rate of their product. Where mild acceleration with improved workability and finishing characteristics is required, use at 300-500 mls per 100kg in conjunction with a low dose of a normal setting admixture such as 300mls per 100kg of **POZZOLITH 370C**. 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 555 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 to initial batching water to ensure complete distribution throughout the mix. **POZZOLITH 555** should not be used in conjunction with other admixtures supplied by other manufacturers unless specific test information is available.

PACKAGING

POZZOLITH 555 is available in sealed 205 litre lined drums and bulk delivery.

NOTE FOR TEST LABORATORIES

POZZOLITH 555 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 555 is stable in neutral and alkaline conditions. Avoid mixing or bringing it into contact with strong acids (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.



The Chemical Company

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** 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** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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