

# POZZOLITH<sup>®</sup> 450

Non-chloride water-reducing admixture

## DESCRIPTION

**POZZOLITH 450** is a ready to use liquid admixture formulated to improve the performance of concrete in both the plastic and hardened states. **POZZOLITH 450** is a non-retarding, water reducing, strength enhancing admixture which does not contain added chloride.

## RECOMMENDED FOR

- All types of concrete where a non-chloride water reducing admixture is required.
- Improving the performance of pumped concrete, shotcrete and conventionally placed concrete
- Improving the performance of plain, reinforced, precast, lightweight or standard weight concrete
- Concrete subject to chloride ion constraints such as in coastal environments
- Use in white or coloured concrete
- Use in architectural concrete
- Concrete placed on galvanised steel floor and roof systems which are left in place

## FEATURES AND BENEFITS

**POZZOLITH 450** admixture aids in the production of concrete with these special qualities:

In the plastic state:

- Superior finishing characteristics for slab work and off-form surfaces
- Normal setting characteristics under cool conditions allowing earlier finishing of slabs
- Reduced segregation particularly in lean mixes and high slump concrete
- Improved workability
- Improved pumpability
- Reduced water content for a given workability
- Compatibility with air entraining agents

In the hardened concrete:

- No added chlorides, conforms to the most stringent chloride ion limits including AS3600 concrete structures code, will not initiate or promote the corrosion of reinforcing steel
- Increased strength - compressive, flexural and bond (concrete to steel)
- Superior finished appearance
- Increased density and durability
- Reduced permeability - improved watertightness
- Reduced cracking

## QUANTITY TO USE

**POZZOLITH 450** admixture is normally used at a dose rate of 350mL per 100kg of cementitious material depending on the composition of the basic ingredients of the concrete and ambient conditions. **POZZOLITH 450** can be used in summer at 400 to 500mLs per 100kg of cementitious material resulting in increased water reduction. The correct dosage rate in each instance should be determined by correctly conducted trials under the supervision of a BASF Technical Sales Representative.

## COMPATABILITY

**POZZOLITH 450** can be used with air entraining agents and other BASF admixtures, however BASF would recommend that evaluation trials be carried out to achieve optimum performance. During trials & concrete production, all admixtures should be dispensed separately and added separately to initial batching water to ensure complete distribution throughout the mix. **POZZOLITH 450** can also be used in mix designs including fly ash, slag and silica fume.

## PACKAGING

**POZZOLITH 450** is supplied in 20 litre pails, 205 litre drums, 1000 litre pallecons and bulk delivery.

## PRECAUTIONS

If **POZZOLITH 450** has frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. Do not use pressurised air for agitation.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF **Material Safety Data Sheet (MSDS)** from our office or our website.



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.

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## 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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