

# MasterPozzolith 450

Non-chloride water-reducing admixture

## Material Description

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

## Areas of Application

- 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

## Characteristics and Benefits

**MasterPozzolith 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

**MasterPozzolith 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. **MasterPozzolith 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 Master Builders Solutions Technical Sales Representative.

## Compatibility

**MasterPozzolith 450** can be used with air entraining agents and other Master Builders Solutions admixtures, however Master Builders Solutions 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. **MasterPozzolith 450** can also be used in mix designs including fly ash, slag and silica fume.

## Packaging

**MasterPozzolith 450** is supplied in bulk, 1000 litre pallecons and 20 litre pails.



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## Storage & Shelf Life

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing. Protect from direct sunlight. Storage stability: Storage temperature: 5 - 50 °C. The packed product is not damaged by low temperatures or by frost. The packed product will not be damaged by high temperatures.

**MasterPozzolith 450** has a shelf life of 12 months.

## Precautions

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

## Disclaimer

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### STATEMENT OF RESPONSIBILITY

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