

# MasterPozzolith® 2020

PCE water reducing admixture for superior product stability and rheology

## MATERIAL DESCRIPTION

**MasterPozzolith 2020** is a robust water reducing admixture based on a specially formulated modification of the latest polycarboxylate ether chemistry from Master Builders Solutions. The product has been primarily developed for all types of normal and specialty concrete classes in the premix, precast and in situ concrete within the target slumps up to 120 mm, providing workable and cohesive mixes with less water. **MasterPozzolith 2020** has been specifically developed to enhance overall optimum performance in terms of water reduction, product stability, slump retention, compressive strengths & superior mix rheology, while maintaining control on extension of set retardation.

**MasterPozzolith 2020** is chloride free and is compatible with all main types of cements and supplementary cementitious materials.

**MasterPozzolith 2020** conforms to AS 1478 Type WR.

## AREAS OF APPLICATION

**MasterPozzolith 2020** is recommended for:

- Most types of concrete where a non-chloride water reducing admixture is required. e.g.- foundations, slabs, driveways, floor slabs, etc.
- Applications where good rheology, easier screeding and finishing are required for pumped and conventionally placed concrete
- A combination of water reduction and workability in concrete mixes.

## CHARACTERISTICS AND BENEFITS

- Efficient dispersion of binders in ordinary concrete mixes.
- Improved product stability, reducing re-circulation requirements at higher temperatures
- Improved workability at higher temperatures.
- Improved pump operating pressures.
- Greater cohesion control of lean mixes.
- Reduced water content for a given workability.

A new, unique mechanism of action using the polycarboxylate ether (PCE) chemistry in

**MasterPozzolith 2020** improves the effectiveness of cement dispersion coupled with rheology improvement to effect improved hydration.

electrostatic mechanism causes the cement paste to disperse and helps to reduce mixing water to obtain a given concrete workability.

**MasterPozzolith 2020** has a different chemical structure from the traditional water reducers. It is based on the latest generation of carboxylic ether polymer technology from Master Builders Solutions, which is designed to offer the concrete producer a more robust, versatile & consistent performing admixture.

## PROPERTIES

Aspect	Light brown liquid
Relative Density	1.044 ± 0.02
pH	7.7 ± 1.0
Chloride Content	< 0.05%

## DOSAGE

**MasterPozzolith 2020** is a neutral set versatile admixture with a dose rate between 250 and 400 ml / 100 kg of cementitious material. An increase in the above dose rate may result in increased water reduction, workability and/or set time and possible improved pumpability and rheology, however, this is dependent on mix design characteristics. The optimum dosage rate in each instance should be determined by correctly conducted trials using materials and conditions of use under the supervision of your Technical Sales Representative.

## COMPATABILITY

**MasterPozzolith 2020** is not compatible with admixtures containing β-naphthalene sulfonate condensates (BNS).

**MasterPozzolith 2020** is compatible with all air entraining concrete admixtures, however the dosage of air entraining agent when added with **MasterPozzolith 2020** may need to be altered to achieve required air entrainment. Initial lab and field trials are recommended to verify exact dose rates.

**MasterPozzolith 2020** can be used in combination with other Master Builders Solutions admixtures to achieve cost effective performance; like addition with Polyheed mid-range water reducers, MasterGlenium range of high range water reducers. **MasterPozzolith 2020** can be used effectively in combination with non-chloride (MasterSet AC 534) and chloride based (MasterSet AC 102) accelerators to reduce set times and bleed rates for winter concreting.

Each admixture should be dispensed separately into the mix to ensure complete distribution throughout the mix.

**MasterPozzolith 2020** should not be used in conjunction with other admixtures unless specific test information is available or advised by your local Technical Sales Representative.

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## PACKAGING

**MasterPozzolith 2020** is available in 1000 litre palletcons and bulk delivery.

## 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. Protect from temperatures below: 5 °C The packed product is destroyed at low temperatures or by frost. Protect from temperatures above: 45 °C The packed product will be damaged by high temperatures.

**MasterPozzolith 2020** 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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