

# MasterPolyheed 8195

New generation mid-range water reducer with Suretec (super retention technology)

## Material Description

**MasterPolyheed 8195** is a non-chloride, robust, specially formulated polycarboxylate ether based mid-range water reducing admixture (MWR). It has been developed for all types of premix, precast and in-situ concrete (including post-tensioned applications) and contributes significantly to improve the fresh and hardened properties of concrete. **MasterPolyheed 8195** is a versatile admixture able to produce and maintain mid-range slumps for extended periods without retardation. Its unique formulation is able to improve the rheology and finishability of concrete. **MasterPolyheed 8195** meets the requirements for mid-range water reducing admixtures according to AS 1478.1-2000, Type MWR.

## Areas of Application

- All types of concrete (25 – 50 MPa) in the mid-range workability band (100 - 150mm slump) requiring workability retention (~ 60 – 120 min) without excessive retardation
- Precast concrete
- Post tensioned concrete applications
- Improving the performance of pumped concrete, shotcrete and conventionally placed concrete
- “Green” concrete mixes with high % of SCM's
- Use in architectural concrete, especially where off-form and/or surface finish is critical

## Characteristics and Benefits

- Normal setting characteristics throughout the recommended dose range
- Reduced segregation, particularly in lean mixes and mid-slump concrete
- Superior slump retention
- Improved workability and pumpability
- Reduced water content for a given workability
- Enhanced finishability improving finished appearance
- No added chlorides, thus conforming to the most stringent chloride ion limits including AS3600
- Increased strength – compressive, flexural and bond (concrete to steel)

- Increased durability (e.g. permeability, water- tightness)
- Reduced cracking
- Neutral effect on drying shrinkage

## Properties

Aspect	Opaque yellowish liquid
Relative Density	1.062 ± 0.02
pH	5.7 ± 1.0

## Dosage

**MasterPolyheed 8195** is a versatile admixture with a dose rate of 300 to 500 ml / 100kg of cementitious material. An increase in dose rate results in an increase in water reduction and may give slight slump enlargement which tapers down after 45 – 60 min. The optimum dosage rate in each instance should be determined by correctly conducted trials using materials and conditions of use under the supervision of a Master Builders Solutions Technical Sales Representative.

## Application

**MasterPolyheed 8195** can be added at the batch plant or on site. When adding at batch plant, **MasterPolyheed 8195** should be added with the initial batch water, to ensure maximum dispersion throughout the mix. Do not add onto dry aggregates or cement. When introduced on site, mix for a further 5 minutes after addition.

## Compatibility

**MasterPolyheed 8195** is not compatible with admixtures containing β-naphthalene sulphonate condensates (BNS). **MasterPolyheed 8195** can be used in combination with other Master Builders Solutions admixtures to achieve cost effective customized performance, like addition with other PCE based MasterPolyheed mid-range water reducers, MasterGlenium range of high range water reducers. It 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.



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

It is imperative that any combination must be tested in controlled laboratory or field trials to ensure the combination will meet the desired performance parameters before proceeding to actual project mixes.

Care should be taken when used in conjunction with an air entrainer (AEA) as there may be a synergistic effect increasing the air content of the final mix above that desired.

**MasterPolyheed 8195** should not be used in conjunction with other admixtures unless specific test information is available or advised by a Master Builders Technical Sales Representative.

## Packaging

**MasterPolyheed 8195** is available in 1000 litre pallecons and bulk delivery.

## Disclaimer

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