

MasterGlenium SKY 8708

New generation high range water reducing admixture with super retaining technology for premix, precast and shotcrete applications

Material Description

MasterGlenium SKY 8708 is a uniquely formulated latest generation high range water reducer with super retention technology. **MasterGlenium SKY 8708** contains polycarboxylate ether polymers combined with Suretec polymers for ready-mixed & precast concrete where slump retention, improved rheology, durability, high early & ultimate strength are required. The degree of slump retention will depend on ambient temperature, mix design and dose rate. A unique combination of dispersion and steric hindrance effect makes **MasterGlenium SKY 8708** the ideal admixture for ready-mixed, precast and shotcrete applications. The ability to work with low water/cement ratios and still obtain extended slump retention allows for the manufacture of high quality concrete. **MasterGlenium SKY 8708** is free of added chlorides, and is compatible with all cements meeting recognized international standards. **MasterGlenium SKY 8708** meets the requirements for High Range Water Reducers according to AS 1478.1-2000, Type HWR.

Areas of Application

- Slump retaining and super slump retaining concrete
- Faster mixing logistics during large jobs
- High flowability concrete
- Shotcrete
- Concrete that requires improved surface finish
- Premix and precast concrete
- High strength / ultra-high strength concrete
- Super Workable Concrete / Self Consolidating Concrete
- High performance concrete with high durability
- Pumped concrete
- Piling mixes
- Pre-stressed and post tensioned concrete

Characteristics and Benefits

- High range water reduction - high early and ultimate strengths
- Very dosage efficient
- Low permeability, high durability concrete
- High flowability - ease of placing and compaction
- Superior slump retention i.e. no re-tempering

- Ease of delivery to point of placement
- Low shrinkage and creep – improve dimensional stability. Reduced risk of cracks
- Good cohesion - ease of pumping
- Good rheology - excellent surface finish
- Suitable for use with super workable concrete / self-consolidating concrete
- Excellent bleed profile ensuring the highest concrete quality
- High elastic modulus - superior load bearing capacity

Properties

Colour	Yellowish opaque
Specific gravity	1.047 – 1.087
pH	4.5 – 6.5

Application

MasterGlenium SKY 8708 is a ready-to-use liquid admixture, that can be added to the concrete mix as a separate component with the initial batch water, however optimal water reduction and workability is obtained if **MasterGlenium SKY 8708** is discharged into the concrete mix right after the addition of the first 80% (approximate) of the mixing water. Avoid adding the admixture to the dry aggregates/cement. A separate dispenser and feed line must be used.

Dosage

Dosage of **MasterGlenium SKY 8708** depends on the mix design, ambient conditions, degree of water reduction, workability and workability retention required.

MasterGlenium SKY 8708 is normally dispensed at a rate of 350ml to 700ml / 100 kg of cementitious material.

An increase in dosage may give slight slump enlargement which comes down in 30 – 60 minutes after mixing. Other dosages from 700 – 1000 ml / 100 kg cementitious material may also be used depending on the specific mix design and working conditions but should be trialed first to verify performance.

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.



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Compatibility

MasterGlenium SKY 8708 is not compatible with admixtures containing β -naphthalene sulphonate condensates (BNS). MasterGlenium SKY 8708 can be used in combination with other Master Builders Solutions admixtures to achieve cost effective customized performance, like addition with other PCE based MasterPolyheed midrange water reducers, MasterMatrix super slump retention admixtures. 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. 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. Trial mixes should be made with job materials and all admixtures or combinations to determine the optimum dosages required and to verify concrete performance for a specified job requirement before commencing supply.

Disclaimer

Packaging

MasterGlenium SKY 8708 is available in bulk, 1000 litre pallecons and 20 litre cubes.

Storage & Shelf Life

Keep only in the original container in a cool, dry, well ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

MasterGlenium SKY 8708 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.

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STATEMENT OF RESPONSIBILITY

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