

MasterGlenium SKY 8455

Robust High Range Water Reducing admixture with Suretec (super retention technology) for premixed and precast applications

Material Description

MasterGlenium SKY 8455 is a uniquely formulated latest generation High Range Water Reducer with super retention and fast wet-out technology. **MasterGlenium SKY 8455** contains polycarboxylate ether polymers combined with SURETEC polymers for ready-mixed & precast concrete where moderate slump retention, improved rheology, durability, high early & ultimate strengths are required. The product is also designed for use with concrete ingredients that may be inconsistent in quality. A unique combination of dispersion and steric hindrance effects makes the admixture ideal for the ready-mixed and precast concrete industries. **MasterGlenium SKY 8455** enables the concrete producer to produce high performance, high strength and self-compacting type mixes with relatively low and stable air contents.

MasterGlenium SKY 8455 is free of added chlorides and compatible with all cements meeting recognised international standards. **MasterGlenium SKY 8455** meets the requirements for a High Range Water Reducer in accordance with AS 1478.1-2000, Type HWRRe.

Areas of Application

- Premixed and precast concrete
- Faster dispersion resulting in time savings
- High flowing concrete
- Concrete requiring improved surface finish
- High Strength & Ultra High Strength Concrete
- Super Workable Concrete, Self-Consolidating Concrete, Self-Compacting Concrete (SCC)
- High Performance Concrete (HPC) with high durability specifications
- Pumped concrete
- Piling mixes
- Pre-stressed and post tensioned concrete

Characteristics and Benefits

- High range water reduction - high early and ultimate strengths
- Dose efficient
- Low permeability, high durability concrete
- High flowability - ease of placing & compaction
- Moderate slump retention properties
- Low shrinkage & creep providing improved 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 & Self-Compacting Concrete
- High modulus of elasticity - superior load bearing capacity

Application

MasterGlenium SKY 8455 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 are obtained if **MasterGlenium SKY 8455** is added to the concrete mix right after the addition of the first 50 -70% of the mixing water. Avoid adding the admixture to dry aggregates and cement. A separate dispenser and feed line must be used.

Dosage

The dosage of **MasterGlenium SKY 8455** depends on the mix design, degree of water reduction, ambient conditions, workability and workability retention required.

MasterGlenium SKY 8455 is normally dispensed at a dose rate of 300ml to 700ml/100kg of cementitious material. Higher dosages ranging from 700 to 1500 ml/100 kg cementitious material may also be used depending on the specific mix design (like HPC, SWC, SCC, HSC, UHSC etc.) and working conditions but must be trialed prior to verify its performance. The optimum dose rate in each instance must be determined by conducting trials using materials and conditions of use under the supervision of a Master Builders Solutions Technical Sales Representative if possible.



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Compatibility

MasterGlenium SKY 8455 is not compatible with admixtures containing β -naphthalene sulphonate condensates (BNS).

MasterGlenium SKY 8455 can be used in combination with other Master Builders Solutions admixtures to achieve cost effective and customised performance. It can also be used effectively in combination with non-chloride accelerators such as MasterSet AC 534 to reduce set times for cold weather concreting.

Each admixture should be dispensed separately into the mix to ensure proper dispersion. Care should be taken when used in conjunction with an air entraining agent (AEA) as there may be a synergistic effect due to increase in the air content.

Packaging

MasterGlenium SKY 8455 is available in bulk, 1000 litre IBCs, and 20 litre pails.

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 8455 has a shelf life of 12 months when stored as recommended above.

MasterGlenium SKY 8455 should be recirculated before use.

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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MB Solutions Australia Pty Ltd

ABN 69 634 934 419
Unit 102, 2 Burbank Place
Norwest NSW 2153

Freecall: 1300 227 300

www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
Albany, Auckland
New Zealand

Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
0800 001 607 within New Zealand

