

MasterGlenium Sky 3610

Workability - Retaining Admixture

MATERIAL DESCRIPTION

MasterGlenium Sky 3610 admixture is a revolutionary new technology based on significant advances in admixture chemistry. **MasterGlenium Sky 3610** admixture is used as part of an admixture system to provide customized admixture solutions for a wide range of concrete applications. **MasterGlenium Sky 3610** admixture is a workability-retaining admixture that provides flexible degrees of slump retention without retardation.

MasterGlenium Sky 3610 admixture provides the concrete producer with the ability to immediately create the optimal admixture system for changing and fluctuating regional raw materials, environmental conditions, and project requirements. **MasterGlenium Sky 3610** admixture gives the concrete producer the ability to consistently produce and deliver quality concrete mixtures.

MasterGlenium Sky 3610 admixture meets the interim requirements of ASTM C 494/C 494M Type S, Specific Performance, admixtures.

FIELDS OF APPLICATION

MasterGlenium Sky 3610 is recommended for use in:

- Concrete with varying slump requirements.
- Concrete mixtures utilizing supplementary cementitious materials.
- Concrete where high flowability, increased stability and durability are needed.
- Ready-mixed and precast concrete.
- Production of self-consolidating concrete in (SCC) mixtures.

FEATURES

- Workability retention without retardation.
- Flexible levels of workability retention by adjusting the dosage.
- Improved early and late-age compressive strengths.

BENEFITS

MasterGlenium Sky 3610 offers the following benefits:

- Promotes greater consistency of concrete workability at the job site.
- Promotes consistency in compressive strengths via minimized job site addition of water.

- Minimizes re-dosing of high-range water-reducing admixture at the job site.
- Fewer rejected loads and better customer satisfaction due to consistent quality of concrete.
- Faster truck turn-around time.
- Expanded concrete delivery range.

GUIDELINES FOR USE

Dosage:

MasterGlenium Sky 3610 admixture has a recommended dosage range of 600 - 1800 mL/100 kg of cementitious materials.

Mixing:

MasterGlenium Sky 3610 admixture can be added with the initial batch water or as a delayed addition. Other dosages may be recommended in special cases or applications according to the specific site conditions or material requirements. In this case, please consult our Technical Services Department for advice.

PRODUCT NOTES

Corrosivity:

Non-Chloride, Non-Corrosive: **MasterGlenium Sky 3610** admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressing steel or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of **MasterGlenium Sky 3610**.

COMPATIBILITY

MasterGlenium Sky 3610 admixture is compatible with most admixtures used in the production of quality concrete, including normal, mid-range and high-range water reducing admixtures, air-entrainers, accelerators, retarders, extended set control admixtures, corrosion inhibitors, and shrinkage reducers.

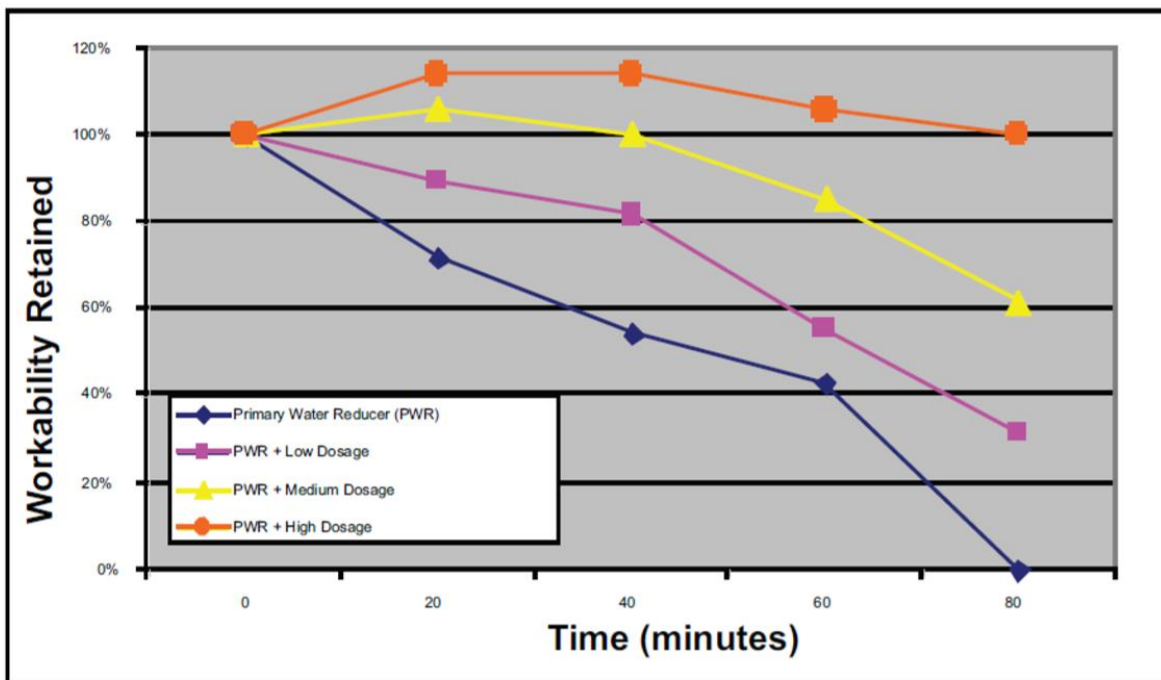
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PERFORMANCE CHARACTERISTICS

The data in the following graph represents the dramatic performance achievable through the use of **MasterGlenium Sky 3610** admixture. Represented in the graph are four mixtures. The first mixture utilized a primary water reducer without **MasterGlenium Sky 3610** admixture. The three remaining mixtures utilized the same primary water reducer with a low, medium, and high dosage of the **MasterGlenium Sky 3610** admixture. These mixtures had concrete temperatures of 32°C and contained 356 kg/m³ of cement with a w/c of 0.40.

Do not use **MasterGlenium Sky 3610** admixture with admixtures containing betanaphthalene sulfonate. Erratic behaviours in slump, workability retention and pumpability may be experienced. **MasterGlenium Sky 3610** admixture has only been tested with admixtures manufactured by MB Construction Chemicals Solutions South Africa (Pty) Ltd. As a result, use of **MasterGlenium Sky 3610** admixture with non-Master Builders Solutions admixtures may produce unpredictable results. Master Builders Solutions denies any warranty expressed or implied with respect to any application using a non-Master Builders Solutions admixture in connection with the use of **MasterGlenium Sky 3610** admixture.



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STORAGE AND HANDLING

Storage Temperature:

MasterGlenium Sky 3610 admixture must be stored at temperatures above 5°C. If **MasterGlenium Sky 3610** admixture freezes, thaw and reconstitute by mechanical agitation. Do not use pressurized air for agitation.

Shelf Life:

MasterGlenium Sky 3610 admixture has a minimum shelf life of 12 months from date of manufacture. Depending on storage conditions, the shelf life may be greater than stated.

PACKAGING

MasterGlenium Sky 3610 is available in 20L, 1000 litre IBC's or in bulk.

TYPICAL PROPERTIES*

Properties listed are for guidance and are not a guarantee of performance.

Appearance	Yellowish liquid
Specific gravity @25°C	1.030 -1.070
pH value	4.5 – 6.5

RELATED DOCUMENTS

Material Safety Data Sheets: **MasterGlenium Sky 3610** admixture.

ADDITIONAL INFORMATION

For additional information on **MasterGlenium Sky 3610** admixture or on its use in developing concrete mixtures with special performance characteristics, contact your local sales representative.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

DISCLAIMER

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