

MasterGlenium® SKY 3888

A latest generation high-performance polycarboxylate ether (PCE) superplasticizer for the Readymix industry when extended workability retention is required

DESCRIPTION

MasterGlenium SKY 3888 consists of a blend of innovative patented latest generation modified polycarboxylate ether polymers. The particular molecular configuration allows **MasterGlenium SKY 3888** to firstly give a high level of water reduction and secondly extended workability retention up to several hours. The polymer structure of **MasterGlenium SKY 3888** is also specially designed to improve rheology of concrete, making it flowable and less viscous even at very low water/cement ratios. Robustness is a distinctive feature of concrete produced with

MasterGlenium SKY 3888.

MasterGlenium SKY 3888 is suitable for producing highly-fluid concrete for piling and diaphragm wall construction. Concrete remains stable without segregation or bleed at low water cement ratios with high ultimate strength. **MasterGlenium SKY 3888** may be used in combination with **MasterMatrix 110** to improve mix stability such as when producing Self Compacting Concrete (SCC) or Smart Dynamic Concrete (SDC) that is placed without the use of vibration giving economic, ecological and ergonomic concrete production.

FEATURES & BENEFITS

The ready-mix producer:

- Capability of delivering high performance concrete to the job site.
- Production of concrete with low water cement ratios with excellent workability retention properties.
- Single product for many application needs.

The contractor / applicator:

- Easier placing and faster strength development.
- Extended working live for mass concrete of were placing is slow or delayed.
- Improved concrete surfaces finish.

The engineer:

- Insurance that concrete meets original specification.
- High quality durable concrete.

PACKAGING

MasterGlenium SKY 3888 is available in 210 liters drums or in bulk.

STANDARDS

MasterGlenium SKY 3888 meets the requirements of EN 934-2 and ASTM C494 Type G.

TYPICAL PROPERTIES*

Appearance and Form	Brown liquid
Specific gravity @ 25°C	1.085 – 1.105 g/cm3
pH-value @ 25°C	5-7
Chloride ion content	"Chloride Free" to EN 934

DIRECTIONS FOR USE

MasterGlenium SKY 3888 is a ready to use liquid admixture that is added to the concrete at the time of batching.

The maximum effect is achieved when the **MasterGlenium SKY 3888** is added after the addition of 70% of the water.

MasterGlenium SKY 3888 must not be added to the dry materials.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the **MasterGlenium SKY 3888** of 60 seconds at least for forced action mixers is recommended.

DOSAGE RATE

The recommended dosage rate is 0.5 to 3.0 liters per 100kg of cementitious material. Other dosages may be used in special cases according to specific production conditions. In this case please consult our Technical Services Department.

MasterGlenium[®] SKY 3888

COMPATIBILITY

MasterGlenium SKY 3888 is compatible and recommended for use with:

- **MasterMatrix 110** to modify the viscosity of SCC.
- **MasterAir**, air entraining admixture to improve freeze-thaw resistance.
- **MasterFinish**, demoulding agent for easy formwork removal and improved finish.
- **MasterKure**, user friendly curing compound for highly efficient water retention.
- **MasterLife range** provides resistance to deterioration caused by abrasion, corrosion of steel, alkali silica reaction, sulfate attack, and drying shrinkage cracking.

MasterGlenium SKY 3888 is not compatible with **MasterRheobuild** superplasticizers.

MasterGlenium SKY 3888 is suitable for mixes containing all types of Portland cement and cementitious materials as follows:

- Microsilica (silica fume)
- fly ash (PFA)
- ground granulated blastfurnace slag GGBS

STORAGE

MasterGlenium SKY 3888 should be stored above 0°C In closed containers or storage tanks to protect from evaporation and extreme temperatures.

The shelf life is 1 year when stored as above.

SAFETY PRECAUTIONS

MasterGlenium SKY 3888 contains no hazardous substances requiring labelling. For further information refer to the Material Safety Data Sheet.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from Master Builders Solutions 's Egypt facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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