

# MasterGlenium ACE<sup>®</sup> 8558 LW

New generation superplasticizing admixture for lightweight concrete

## DESCRIPTION

**MasterGlenium ACE 8558 LW** is an innovative polycarboxylic ether (PCE) based superplasticiser specially developed and formulated for producing lightweight concrete of density less than 2200kg/m<sup>3</sup>. Due to a specifically tailored formulation, this admixture shows excellent dispersion of cement at normal to low water binderratio.

**MasterGlenium ACE 8558 LW** accelerates cement hydration by allowing an increased surface area of cement particle to react with water. AS a result, it is possible to achieve rapid development of hydration products and as a consequence, higher strength at early age. The polymer structure of **MasterGlenium ACE 8558 LW** is specially designed to improve the rheology of lightweight concrete, making it flowable and with low viscosity, even at low water cement ratio.

**MasterGlenium ACE 8558 LW** is specially formulated for use with lightweight aggregates to achieve required concrete density and strength class. **MasterGlenium ACE 8558 LW** enables a homogenous mixture which keep the lightweight aggregates from separating from the cement paste mixture.

**MasterGlenium ACE 8558 LW** is free of chloride and is compatible with all cements meeting recognised international standards.

## FEATURES AND BENEFITS

**MasterGlenium ACE 8558 LW** offers the following benefits for lightweight concrete producers:

- Improved and excellent durability
- Superior workability
- Reduced segregation & bleeding
- Excellent concrete quality
- Produce Rheoplastic and Self Consolidating Concrete
- Increased Productivity
- Eliminate energy required for placing, consolidation and curing.
- Ease of use
- Superior cohesion

## APPLICATION

**MasterGlenium ACE 8558 LW** is suitable for making lightweight concrete with highly workable, non-segregating concrete utilising low water cement ratios and, consequently, high early and final strengths. It is highly recommended that **MasterGlenium ACE 8558 LW** to be used in combination with **MasterMatrix VMA362** for producing advanced self-compacting concrete. This will result in minimum or no compaction, faster placing thus, achieving economic, ecological and ergonomic concrete production.

**MasterGlenium ACE 8558 LW** is a liquid admixture to be added to the concrete during the mixing process. Best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of atleast 80% of the total water.

## DOSAGE

Dosage of **MasterGlenium ACE 8558 LW** dependson the mix design, ambient conditions and degree of water reduction and workability required. The recommended dosage rate is 0.5 to 2.5 litres per 100 kg of binder. Other dosages may also be used depending on the specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.

Please consult our Master Builders Solutions Construction Chemicals representative

## PACKAGING

**MasterGlenium ACE 8558 LW** is available in bulk and 205L drums.

## SHELF LIFE

**MasterGlenium ACE 8558 LW** must be stored in a place where the temperature is not below 5°C.

## PRECAUTIONS

Health: **MasterGlenium ACE 8558 LW** does not contain any hazardous substances requiring labelling. It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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® = registered trademark of a MBCC Group member in many countries of the world

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**STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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**NOTE**

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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