

MasterGlenium[®] ACE 8109

High-range superplasticiser with super retention technology

DESCRIPTION

MasterGlenium ACE 8109 is an innovative polycarboxylic ether (PCE) based superplasticiser that has super retention technology. Due to a specifically tailored constitution of the active material, this admixture shows formerly unknown adsorption characteristics to cement. As a result, **MasterGlenium ACE 8109** provides exceptional good early strength development. While conventional admixture for high early strength concomitantly suffer from high workability loss over time and eventually lower final strength, **MasterGlenium ACE 8109** overcomes this dependency and provides much improved slump retention and vastly increased final strength of concrete.

The formerly unrivalled combination of early strength, slump retention and final strength development allows **MasterGlenium ACE 8109** to be considered for both RMC as well as precast application.

Compatibility

MasterGlenium ACE 8109 is compatible and recommended for use with:

- Viscosity Modifying Agents to produce SCC.
- MasterAir 202, air entraining admixture, to improve freeze-thaw resistance.

MasterGlenium ACE 8109 is not compatible with the MasterRheobuild superplasticisers.

FEATURES AND BENEFITS

MasterGlenium ACE 8109 offers the following benefits for the precast concrete industry:

- Produce Rheoplastic and Self Consolidating Concrete with a low w/c ratio
- Optimize curing cycle by shortening curing time or decreasing curing temperature
- Eliminate heat curing
- Eliminate energy required for placing, consolidation and curing
- Increase productivity

- Improve surface appearance
- Produce durable precast concrete elements
- As compared to the traditional superplasticisers, improve engineering properties such as early and ultimate compressive and flexural strengths.

APPLICATION

MasterGlenium ACE 8109 is a liquid admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water.

DOSAGE

The normally recommended dosage rate is 0.8 to 1.8 litres per 100 kg of binder. Other dosages may be used in special cases according to specific job site conditions. In this case please consult our Master Builders Solutions representative.

PACKAGING

MasterGlenium SKY 8109 is available in bulk and 205L drums.

SHELF LIFE

MasterGlenium ACE 8109 must be stored in a place where the temperature is not below 0°C. In case the product freezes, increase the temperature of the product to 30°C and remix

PRECAUTIONS

Health: MasterGlenium ACE 8109 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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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.

NOTE

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