

# MasterGlenium<sup>®</sup> ACE 8589

High-range superplasticiser for precast concrete

## DESCRIPTION

**MasterGlenium ACE 8589** is an innovative polycarboxylic ether (PCE) based superplasticiser ideally suited for precast industry. Due to a specifically tailored formulation, this admixture shows excellent dispersion of cement at low water binder ratio. As a result, **MasterGlenium ACE 8589** provides exceptional good early strength development and maintains flowability for a considerable period of time.

The formerly unrivaled combination of early strength, slump retention and final strength development allows **MasterGlenium ACE 8589** to be considered ideally for precast application under difficult condition.

It is formulated to comply with ASTM C494 for Type F admixtures and BS-EN 934-2:2001.

## Compatibility

**MasterGlenium ACE 8589** is compatible and recommended for use with:

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

**MasterGlenium ACE 8589** is not compatible with the MasterRheobuild superplasticisers.

## FEATURES AND BENEFITS

**MasterGlenium ACE 8589** offers the following benefits for the precast concrete industry:

- High impermeability and strength
- Improved and excellent durability
- Very high workability
- No segregation even at high workability
- Excellent concrete quality
- 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 8589** 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 0.75 to 1.5 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 ACE 8589** is available in bulk and 205L drums.

## SHELF LIFE

**MasterGlenium ACE 8589** 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 8589** 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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