

GLENIUM[®] ACE 68

High-range superplasticiser for precast concrete

DESCRIPTION

GLENIUM ACE 68 is a polycarboxylate based superplasticiser. It's particular molecular configuration accelerates the cement hydration. Rapid adsorption of the molecule onto the cement particles, combined with an efficient dispersion effect, exposes increased surface of the cement grains to react with water.

As a result of this effect, it is possible to obtain earlier development of the heat of hydration, rapid development of the hydration products and, as a consequence, higher strengths at very early age.

RECOMMENDED FOR

GLENIUM ACE 68 is suitable for making precast concrete elements with rheoplastic concrete having fluid consistence, no segregation and low water cement ratio and, consequently, high early and long term strengths.

GLENIUM ACE 68 may be used in combination with VMAs for producing rheodynamic concrete, capable of self-compaction, even in the presence of dense reinforcement, without the aid of vibration, for making precast elements.

ZERO ENERGY SYSTEM

The **Zero Energy System** has been developed to help precast concrete producers to rationalize their production process and save energy costs, as well as improved quality of the product and the working conditions.

Zero Energy System is based on a combination of **GLENIUM ACE 68** and the innovative technology of rheodynamic concrete

FEATURES AND BENEFITS

GLENIUM ACE 68 offers the following benefits for the precast concrete industry:

- Produces rheoplastic and rheodynamic concrete with a low water cement ratio
- Optimizes the curing cycles by reducing curing time or curing temperature
- Eliminates the heat curing in many cases
- Eliminates the energy required for placing, compaction and curing if combined with SCC
- Increases productivity
- Improves surface appearance
- Improves durability of precast concrete elements
- As compared to the traditional superplasticisers, the engineering properties such as early and ultimate compressive and flexural strengths, bond to steel, modulus of elasticity, shrinkage, creep, and impermeability are improved.

APPLICATION

GLENIUM ACE 68 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. The water content is adjusted to obtain the desired consistence or workability.

QUANTITY TO USE

The normally recommended dosage rate is 0.3 to 1.0 litre per 100 kg of the binder and any material (fines or fillers) passing the 0.1 mm sieve used for producing rheodynamic concrete.

The correct dosage rate in each instance should be determined by correctly conducted trials under the supervision of a BASF Technical Sales Representative.

COMPATIBILITY

GLENIUM ACE 68 is not compatible with the **RHEOBUILD** superplasticisers.

PACKAGING

GLENIUM ACE 68 is supplied in 20 litre pails, 1000 litre pallecons and bulk delivery.

PRECAUTIONS

GLENIUM ACE 68 must be stored in a place where the temperature does not drop below 0°C. In case the product freezes, increase the temperature of the product to 30°C and remix.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the **BASF Material Safety Data Sheet (MSDS)** from our office or our website



The Chemical Company

GLENIUM[®] ACE 68

AGAce68/2/0711

STATEMENT OF RESPONSIBILITY	The technical information and application advice given in this BASF 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	Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF , are responsible for carrying out procedures appropriate to a specific application.
-------------	--

BASF Australia Ltd A.B.N. 62008437867 Head Office: 11 Stanton Road Seven Hills, NSW 2147 Ph. (02) 8811 4200	Newcastle (02) 4961 3819 Canberra (02) 6280 6010 Brisbane (07) 3633 9900 Townsville (07) 4774 7344 Melbourne (03) 9549 0300	Adelaide (08) 8139 7500 Perth (08) 9366 2600 Darwin (08) 8984 3269 Kalgoorlie 0417 772 355
---	---	---

BASF New Zealand Ltd BASF WEB SITES	Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233 www.basf-cc.com.au www.basf-cc.co.nz www.meyco.basf.com
--	--