



The Chemical Company

GLENIUM[®] 8008

High Performance Superplasticiser

DESCRIPTION

GLENIUM 8008 is ready to use liquid plasticizer that extremely improves the water-reducing performance of a mix when compared with superplasticisers based on existing polycarboxylic systems. **GLENIUM 8008** can produce ultra high strength concrete of extremely low water-binder ratios of 0.2 or less, at shorter mixing times than conventional admixture systems. **GLENIUM 8008** provides low adhesion (i.e. low viscosity) with good workability and flow characteristics in fresh concrete and as a result, the concrete is easier to place.

RECOMMENDED FOR

GLENIUM 8008 is suitable for any concrete structure, which requires ultra high strength of more than 80 MPa, with strengths of 130-150 MPa easily achievable.

FEATURES AND BENEFITS

- **Excellent workability and flowability in concrete at water-binder ratios of 0.2 or less.**
- **Shortens the required mixing period of time when compared to conventional admixtures.**
- **Excellent long term durability performance.**
- **Reduces adhesion (i.e. viscosity) of freshly mixed concrete with low water and high fine powder content.**
- **Low thixotrophy for easy placing**
- **Provides excellent strength development of hardened concrete at early ages due to minimized retardation.**
- **Low viscosity for easy pumping.**
- **Excellent compatibility with SCM (Supplementary Cementitious Materials)**

APPLICATION

Dispensing

GLENIUM 8008 should be added separately to the initial batching water to ensure complete distribution throughout the mix. Use only potable water. Do not use sea water, bore water or water containing a high dissolved mineral content, for mixing concrete.

When **GLENIUM 8008** is used, no other chemical admixture should be used at the same time without consulting your local BASF Technical Sales Representative.

DOSAGE

The optimum dosage for **GLENIUM 8008** to meet a specific requirement should always be determined by trial mixes using the materials and conditions that had been clearly defined and tested during trial mixes.

The dosage range is within 1.0% to 5.0% by weight of cementitious material (i.e. binder). Actual dose rates will depend on mix constituents and the desired plastic and hardened properties of the concrete. Trials should be conducted prior to project commencement. For further technical assistance or dose rate recommendations please contact your local BASF Technical Sales Representative.

CURING

Like all cementitious products, concrete made with **GLENIUM 8008** must be protected against rapid drying due to high temperature and/or strong wind.

The use of wet burlap, plastic sheets or a curing compound is highly recommended.

PACKAGING

GLENIUM 8008 is available in Bulk, 1000 litre pallecons.

STORAGE

GLENIUM 8008 can be stored in tightly sealed original containers, away from direct sunlight, for 12 months if stored in cool temperatures above 0°C.

PRECAUTIONS

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.

GLENIUM[®] 8008

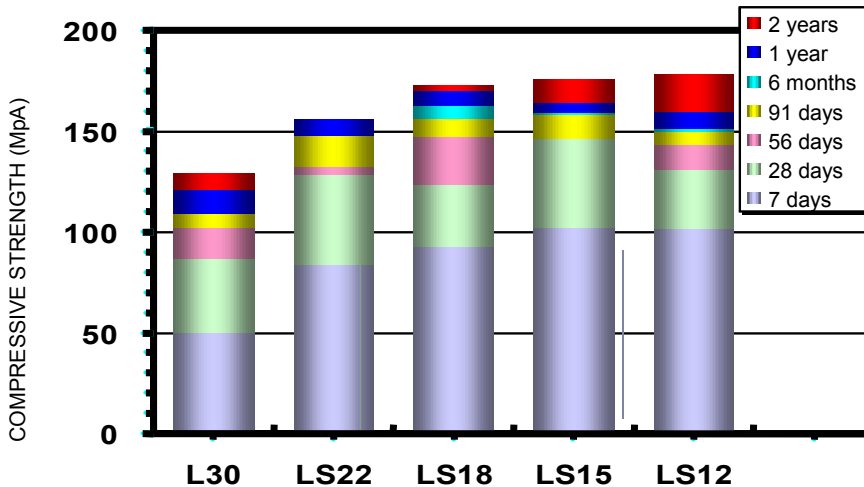
TYPICAL PERFORMANCE DATA

HARDENED PROPERTIES OF UHSC - MIX DESIGN USING GLENIUM 8008

No.	W/B (%)	s/a (%)	Kind of binder	Water (kg/m ³)	Kind of admixture	Dos. (Bx%)	Initial Slump flow (cm)	Air content (%)
LS12	12.0	23.3	LPC+ SF	150	GLENIUM 8008	4.0	43.0	2.5
LS15	15.0	35.7				2.0	68.5	1.8
LS18	18.0	41.9				1.5	70.0	1.8
LS22	22.0	46.6				1.2	68.0	2.0
L30	30.0	51.8	LPC	160		0.65	67.5	3.7
OP55	55.0	47.0	OPC	176	AE water reducing	250ml /B=100kg	Slump 19.0	4.5

LPC = low heat Portland cement; OPC = ordinary Portland cement

COMPRESSIVE STRENGTH (STANDARD CURING) USING GLENIUM 8008



AGlen8008/3/0711

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.

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