

A Versatile “One-stop” Water Reducing/Superplasticizing Admixture

CE Approved – Certificate No. 0086-CPD-469071
EN934 part 2 tables 2, 3.1 & 3.2

Description of Product

GLENIUM[®] 123 is an innovative versatile admixture based on third-generation polycarboxylic ether (PCE) polymers. GLENIUM[®] 123 is specially engineered for the ready-mix concrete market to replace both a lignosulphonate based water reducer and a superplasticizer. Its configuration allows it to perform as a multi functional admixture; it is possible to obtain a high quality concrete mix with good strength development and extended workability without delayed setting characteristics.

The Total Performance Control[™] concept ensures that ready-mix producers, contractors and engineers get a concrete that is of the same high quality as originally specified; starting from production at the batching plant, to the delivery and application into place, and followed by its hardening process. Utilizing Rheodynamic[™] concrete technology it provides a concrete mix with exceptional placing characteristics.

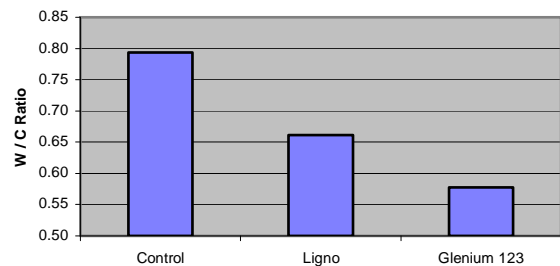
Complies with EN934 Part 2 Tables 2, 3.1 and 3.2.

Fields of Application

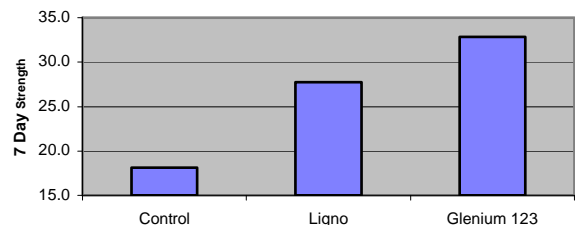
GLENIUM[®] 123 is used for the production of all grades from high quality to low specification ready-mix concrete.

GLENIUM[®] 123 may be used in combination with GLENIUM[®] STREAM admixtures for producing Rheodynamic[™] concrete, capable of self-compaction, even in the presence of dense reinforcement.

**W/C Ratio Comparisons @ 1% Dosage @ S4
(180 slump)**



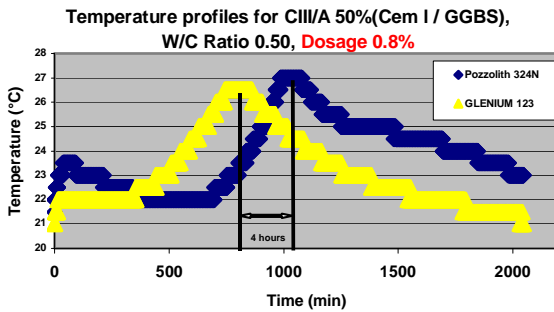
**Compressive Strength @ 1.0% Dosage @ S4
(180 slump)**

**Features and Benefits**

GLENIUM[®] 123 offers the following benefits for:

The Ready-mix Producer:

- Capability of delivering high quality concrete at any time to the job site in place
- Production of a concrete with low water cement ratio that meets EN 206-1 without loss of workability
- Single product for all applications from everyday water reducing to Self Compacting Concrete.



The Contractor / Applicator:

- Easier placing
- Improved concrete surfaces
- Guarantee to place the same concrete as specified and ordered from ready-mix plant
- More versatile and forgiving concrete mix

The Engineer:

- Insurance that concrete meets original specification
- High quality concrete with better durability.

Technical Data/Typical Properties

Appearance	Brown liquid
Specific gravity @ 20°C	1.13 ± 0.03 g/cm ³
pH-value	5.5 ± 1
Alkali content (%)	Less than or equal to 0.50
Chloride content (%)	Less than or equal to 0.10

Application Procedure

Dosage

The normally recommended dosage rate of GLENIUM[®] 123 is approximately:

By Volume - 0.177 to 1.327 litres per 100 kg of cement (binder) content.

By Weight - 0.20 to 1.50 kg per 100 kg of cement (binder) content.

Other dosages may be recommended in special cases according to specific job conditions. Consult BASF Construction Chemicals, Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect.

Compatibility

GLENIUM[®] 123 is not compatible with RHEOBUILD[®] superplasticizers.

In order to optimize special requirements the use of the following complementary additives is suggested:

- Viscosity modifying agent GLENIUM[®] STREAM to produce Rheodynamic[™] concrete
- Air entraining agent MICRO-AIR[®] to improve frost/thaw resistance

Mixing

GLENIUM[®] 123 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if GLENIUM[®] 123 is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates.

Packaging

GLENIUM[®] 123 is available in Bulk, 1000-litre IBC's, 205-litre drums and 25-litre containers.

Shelf Life

12 months if stored according to manufacturer's instructions in unopened container

Storage

GLENIUM[®] 123 must be stored in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF Construction Chemicals, Technical Services Department.

Handling and Transport

No special requirements must be observed during use. Protection gloves and glasses are however recommended. GLENIUM[®] 123 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"BASF plc, Construction Chemicals " (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.