

A Versatile Water Reducing Admixture for S2 / S3 Concrete



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

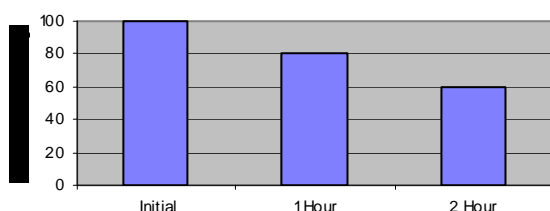
Description of Product

GLENIUM[®] 129 is an innovative versatile admixture based on polycarboxylic ether (PCE) polymers and lignosulphonate. GLENIUM[®] 129 is specially engineered for the ready-mix concrete market to replace a lignosulphonate based water reducer at the S2 / S3 consistence levels but still permitting production of S4 / S5 concretes without significant increases in set retardation. 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.

GLENIUM[®] 129 is designed for use in concrete containing a wide selection of constituent materials. Trials should be carried out to ascertain the specific mix performance for your application. The optimised PCE/LNS blend makes the product particularly suitable for use with Recycled aggregates.

Complies with EN934-2 Table 2.

Workability Retention - % of Initial Slump
(at S2)



Technical Data/Typical Properties

Appearance	Brown liquid
Specific gravity @ 20°C	1.14 ± 0.03 g/cm ³
pH-value	5.0 ± 1
Alkali content (%)	Less than or equal to 0.50
Chloride content (%)	Less than or equal to 0.10

Fields of Application

GLENIUM[®] 129 is used for the production of all grades from high quality to low specification ready-mix concrete.

Features and Benefits

GLENIUM[®] 129 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 & BS 8500 with good workability retention properties.

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.

Application Procedure**Dosage**

The normally recommended dosage rate of GLENIUM[®] 129 is approximately:

By Volume - 0.175 to 1.31 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 or are appropriate 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[®] 129 is not compatible with RHEOBUILD[®] superplasticizers.

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

- Air entraining agent MICRO-AIR[®] to improve frost/thaw resistance

Mixing

GLENIUM[®] 129 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if GLENIUM[®] 129 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[®] 129 is available in 1000-litre IBC's and 25-litre containers.

Shelf Life

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

Air Entrainment

Within the recommended dosage range, the use of Glenium[®] 129 will not entrain air in excess of the requirements of BS EN 934-2, Table 2..

Effects of Overdosing

The detrimental effects of an overdose of Glenium[®] 129 will depend upon the magnitude of the overdose in that an increase in initial setting time will occur. Provided the concrete is protected and cured, this will not necessarily result in any reduction in 28 day strength. The consistence (slump) of the concrete will be increased or the concrete will have a lower water content than the original mix design due to the additional plasticizing effects of the overdose. In addition to this there may be an increase in air entrainment.

Storage

GLENIUM[®] 129 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[®] 129 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

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GLENIUM[®] 129, BASF plc, Construction Chemicals, Version 3**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.