

**Powdered high range water reducing/superplasticizing admixture**



**CE Approved – Certificate No. 0086-CPD-469071  
EN934 part 2 table 2**

**Description of Product**

GLENIUM<sup>®</sup> 198 is a unique blend of powdered superplasticizers in water soluble sachets. The product has been primarily developed for the use in the concrete industry to increase the consistency of a mix whilst maintaining the highest durability and performance.

The primary application is for subsequent addition following initial mixing. For example: increasing/recovering the slump of a concrete following delivery WITHOUT the addition of water and so ensuring the water/cement ratio is maintained as per the design requirements.

GLENIUM<sup>®</sup> 198 complies with EN934 part 2 and is compatible with all types of cement.

**Fields of Application**

- Subsequent recovery/increase of slump.
- Allows transportation of a lower slump mix whilst bringing the slump up to the required levels at the job site.
- Transport of a high slump mix can be avoided
- The excellent dispersion effect makes GLENIUM<sup>®</sup> 198 the ideal admixture for the high quality concrete industry.
- The ability to work with a low water/cement ratio allows for the manufacture of high density, low permeability concrete.

**Features and Benefits**

GLENIUM<sup>®</sup> 198 offers the following benefits for the concrete industry to:

- Does not require expensive dispensers or bulk storage tanks.
- Flowable concrete with the lowest water/cement ratio without segregation or bleeding.
- Allows reduction of curing cycles - i.e. time or temperature.
- Allows concrete production at low temperature.
- Less vibration required even in case of congested steel reinforcement.
- Less workmanship required.
- Improves concrete surface finish and texture.
- Easily transported and stored.
- 1 year shelf life if stored in a dry, frost free conditions.

**GLENIUM<sup>®</sup> 198 increases**

- Initial and final compressive strength.
- E-modulus.
- Adhesion to reinforcement and pre-stressed steel.
- Resistance to carbonation and chloride ion attack of concrete.
- Resistance to aggressive atmospheric.

**GLENIUM<sup>®</sup> 198 decreases**

- Risk of shrinkage.
- Creep.

**Technical Data/Typical Properties**

Appearance	Brown Powder
Uncompacted Bulk Density @ 20°C	600 kg/m <sup>3</sup>
Chloride content %	Less than or equal to 0.1%
Alkali content (%)	Less than or equal to 12.5%

**Application & Dosage**

GLENIUM<sup>®</sup> 198 is a ready to use powdered admixture in a soluble sachet that can be added to the concrete mix as a separate component.

Glenium<sup>®</sup> 198 is supplied in boxes containing 24 x 700 gram water soluble sachets. Depending on specific mix design and requirements, the normally recommended dosage rate is 0.10% - 0.50% by weight of cement.

Optimal concrete plasticizing effect (and thus maximum mixing water reduction) is obtained if GLENIUM<sup>®</sup> 198 is added into the concrete after the first 50-70% of the water has been mixed or after the concrete to be adjusted has been fully mixed, avoid adding the admixture to the dry aggregate or sand.

Typically, 1 to 2 sachets will increase the slump of 1.0m<sup>3</sup>, containing 260kgs to 350kgs of cementitious material from S2 to S4, depending upon aggregate type. The concrete should be thoroughly mixed following the addition of Glenium<sup>®</sup> 198 until a uniform consistence has been achieved.

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<sup>®</sup> 198 is compatible and recommended for use with:

- Air entraining agents (such as the MICRO-AIR<sup>®</sup> range) to optimise frost/thaw resistance.
- Silica-fume for higher density.
- Expanding agents (such as for controlled shrinkage).
- Synthetic and steel fibres.
- Curing agents against evaporation of mixing water.
- Fines contents may require increasing if the consistence level is increased to S4 or above.

**Packaging**

GLENIUM<sup>®</sup> 198 is available in boxes containing 24 x 700 gram soluble sachets in 500-kilo IBC sacks.

**Storage**

GLENIUM<sup>®</sup> 198 must be stored in a dry place. 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.

**Shelf Life**

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

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GLENIUM<sup>®</sup> 198, BASF plc, Construction Chemicals, Version 4**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.