

Super 1000G

Superplasticiser for ultra high strength concrete

Product Description

Super 1000G is a new superplasticiser based on the latest polycarboxylate-type polymer technology. Super 1000G superplasticiser is designed to impart high workability, extended slump life, and increased strength performance and enhanced durability to concrete. Super 1000G contains no added chloride and complies with BS5075: Part 3. One litre weighs approximately $1.07\text{kg} \pm 0.02\text{kg}$.

Dispersion

Based on new comb polymer technology, Super 1000G is a superior dispersing admixture having a marked capacity to disperse the cement agglomerates normally found in a cement-water suspension. This capability exceeds that of normal superplasticisers admixtures, resulting in lower dosages and better control.

Product Advantages

- Long slump life with near neutral set times
- Finishes easily without stickiness, tearing or spotty set characteristics
- Ultra high slump concrete less susceptible to segregation and bleeding
- Provides strength enhancement for high strength concrete application
- Easily added with the concrete mix water for rapid batching

Compatibility with Other Admixtures

Most water reducers or water-reducing retarders, except Naphthalene-based superplasticiser, are compatible with Super 1000G superplasticiser as long as they are added separately to the concrete.

Caution should be exercised when using Super 1000G with a retarder, as excessive retardation can occur if the admixture dosages are too high. Pre-testing of the concrete should be performed to optimise dosages and addition times of these admixtures. The admixtures should not be in contact with each other before they enter the concrete.



Applications

Super 1000G can be used for ultra high strength concrete application. Super 1000G is ideal for use in concrete where watercement ratio is extremely low. The addition of Super 1000G will also fluidise concrete making it ideal for high pumping and flowing concrete.

Addition Rates

Depending on the application, dosage rates can range from 1,000 to 3,000mL / 100kg of cementitious material. However, in most superplasticiser applications, 1,300 to 2,300mL / 100kg of cementitious material will be sufficient. For best results, Super 1000G should be added with the mix water. At a given watercement ratio, the slump required for placement can be controlled by varying the addition rate. Should job site conditions require using more than recommended addition rates, please consult your local GCP representative.

Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product.

Packaging

Super 1000G is available in bulk and in 205L drums. Super 1000G contains no flammable ingredients.

It will begin to freeze at approximately 0°C, but will return to full strength after thawing and thorough agitation.

In storage, and for proper dispensing, Super 1000G should be maintained at temperatures above 0°C.

Health and Safety

See Super 1000G Material Safety Data Sheet or consult GCP Applied Technologies.

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Last Updated: 2023-10-19

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