

# Super 1000S

Superplasticiser for ultra high strength concrete

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## Product Description

Super 1000S is a new superplasticiser based on the latest polycarboxylate-type polymer technology. Super 1000S superplasticiser is designed to impart high workability, extended slump life, and increased strength performance and enhanced durability to concrete. Super 1000S contains no added chloride and complies with BS5075: Part 3. One litre weighs approximately  $1.10\text{kg} \pm 0.02\text{kg}$ .

## Dispersion

Based on new comb polymer technology, Super 1000S 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

## Applications

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

## Dispensing Equipment

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

## Packaging

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

It will begin to freeze at approximately  $0^{\circ}\text{C}$ , but will return to full strength after thawing and thorough agitation.

In storage, and for proper dispensing, Super 1000S should be maintained at temperatures above  $0^{\circ}\text{C}$ .



## Compatibility with Other Admixtures

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

Caution should be exercised when using Super 1000S 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.

## 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 1000S 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.

## Health and Safety

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

[gcpat.my](http://gcpat.my) | For technical information: [asia.enq@gcpat.com](mailto:asia.enq@gcpat.com)

Australia 1800 855 525 New Zealand +64 9 448 1146 China Mainland +86 21 3158 2888 Hong Kong +852 2675 7898 India: Chennai +91 44 6624 2308 Manesar +91 124 488 5900 Indonesia +62 21 893 4260 Japan +81 3 5226 0231 Korea +82 32 820 0800 Malaysia +60 3 9074 6133 Philippines +63 49 549 7373 Singapore +65 6265 3033 Thailand +66 2 709 4470 Vietnam +84 8 3710 6168

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GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Applied Technologies (Malaysia) Sdn. Bhd, 7 Lorong CJ 1/1A, Off Jalan Balakong, 43200 Cheras Jaya, Kuala Lumpur, Malaysia

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