

BP-MegaFlow SP1000

Polycarboxylate Based Superplasticiser Concrete Admixture

Description

BP-MegaFlow SP1000 is a new generation modified polycarboxylate ether based superplasticiser. Having unique carboxylic ether polymer with long lateral chains, it is an effective cement dispersant, fluidifier and high range water reducer as compared to conventional superplasticisers. **BP-MegaFlow SP1000** products have unique water-reducing properties and allow the development of fluid mixes with low permeability performance. Lower permeability minimizes water absorption and chloride ingress. The result is a more durable structure with increased service life.

Standards

ASTM C494, Type D and G, BSEN 934 - 2

Application Area

BP-MegaFlow SP1000 is specially intended for use in self compacting concrete, high strength concrete, durable concrete containing GGBS, micro silica, fly ash, etc. It is used in ready-mix concrete where extra ordinary slump retention is required in hot weather conditions. Extremely useful for concrete in strength class of 15-50N/mm² and high fines concrete.

Advantages

- ✓ Produces free flowing concrete without segregation and bleeding.
- ✓ High strength concrete with low water content.
- ✓ Produces self compacting concrete without segregation.
- ✓ Improved surface finish.
- ✓ Improved adhesion to reinforcing and stressing steel.
- ✓ Lower permeability, better resistance to carbonation.
- ✓ Increased flexural strengths.
- ✓ Good slump retention for longer time.
- ✓ Remarkably superior performance than normal superplasticiser.

Typical Properties

Property	Test Method	Value
Component		Single
Form		Liquid
Colour		Opaque
Specific Gravity	ASTM C494	1.22 +/- 0.02
Air-entrainment	ASTM C231	Up to 1% over Control mix
Chloride Content	BSEN 480-10	Nil to BSEN 934-2
pH	ASTM C494	5-7
* When added at 0.8% dosage in standard mix, Consult with experts of Conpacmix (BD) Ltd.		

Compatibility

BP-MegaFlow SP1000 can be used with all types of cements and cementitious materials like fly ash, GGBS, micro silica, etc. **BP-MegaFlow SP1000** should not be premixed with other admixtures.

Dosage

As a guide, the rate of addition is generally in the range of 0.4-1.5% by weight of cement depending on the function. Higher dosage can be used after verification by conducting lab and site trials. Optimum dosage of **BP-MegaFlow SP1000** and effect on concrete properties such as workability, strength, setting time, etc. are best assessed after preliminary tests on site using the actual materials of mixes under consideration. Overdosing may result in higher workability and fast setting. If intentionally or **Effect of overdosing** accidentally increased above the recommended limit, ensure that the stripping time of formwork is extended accordingly.

Application Guidelines

BP-MegaFlow SP1000 is a ready to use concrete admixture. Required/calculated amount of **BP-MegaFlow SP1000** should be measured by means of measuring jar or dispenser, and should be added to concrete during mixing process preferably at the same time along with water. To attain optimum efficiency of the admixture, it is always recommended to dose **BP-MegaFlow SP1000** to wet concrete mix. This can be done by mixing 70-75% of the total required water with all other ingredients of concrete, followed by the addition of **BP-MegaFlow SP1000** diluted with remaining 25-30% water.

Precautions & Limitations

- ✓ Do not add **BP-MegaFlow SP1000** directly to dry/lump cement & aggregate mix.
- ✓ Maintain water-cement ratio as low as possible.
- ✓ Do not increase the dosage of **BP-MegaFlow SP1000** than the recommendation.

Effect of overdosing

Over dosage of **BP-MegaFlow SP1000** may result into segregation/bleeding of mix, delayed initial/final set, increased plastic shrinkage, air entrainment, etc.

Dispensing

BP-MegaFlow SP1000 should be directly dispensed into the concrete mixer together with the mixing water.

Curing

BP-MegaFlow SP1000 mixed concrete should be cured just after initial setting with water or with a suitable curing agent form **BP-JetCure** range of curing compounds.

Packaging

4 kg, 10 kg , 20 kg & 200 kg.

Storage & Shelf-life

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

BP-MegaFlow SP1000

Cleaning

Clean all equipments and tools with water immediately after use. Hardened material can be removed mechanically.

Health and Safety

This product contains cement powders which, when mixed with water or upon becoming damp, release alkalis that can be harmful to skin. During use, avoid inhalation of the dust and contact with the skin or eyes. Gloves, goggles and suitable mask must be worn. Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately. Regarded as non-hazardous

for transportation. Do not reuse containers. To be disposed off as per local rules and regulations.

Quality & Care

Conpacmix (BD) Ltd acquired German technology for an updated production facility and set up a state of the art laboratory facility for conducting regular quality assessments on raw materials procured and finished products. Process from procurement of raw materials to finished products, are managed by qualified and experienced engineers, chemists and technicians.

Note: Field service where provided does not constitute supervisory responsibility. Suggestions made by **Conpacmix (BD) Ltd.** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **Conpacmix (BD) Ltd.**, are responsible for carrying out procedures appropriate to a specific application.

Manufacture:

