

BP-MegaFlow SP103

High Range Water Reducing and Strength Accelerating Super Plasticizer

Description

BP-MegaFlow SP103 is a very effective, high range water reducing, accelerating superplasticiser and an extremely powerful de-flocculating agent. It is based on polymeric sulphonate naphthalene. **BP-MegaFlow SP103** is a very effective, high range water reducing, accelerating superplasticiser, salt, chloride resistance and an extremely powerful de-flocculating agent. It is based on polymeric sulphonate naphthalene.. **BP-MegaFlow SP103** 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 A, E and F, BSEN 934-2

Application Area

Uses include producing high slump concrete for the precast industries and other types of concrete elements like beams, columns, slabs etc. **BP-MegaFlow SP103** is to be used where substantial water reductions are required to provide high early and ultimate strengths i.e. precast factories, prestressed concrete bridges, shotcreting, etc.

Advantages

- ✓ Water reduction more than 30%.
- ✓ Increased production speed at precast yards.
- ✓ Quick hardening of concrete in initial stages.
- ✓ Steam curing can be avoided.
- ✓ Extremely useful for concrete in cold climate.
- ✓ Increases durability by reducing permeability.
- ✓ Improved waterborne salt resistance.
- ✓ Chloride free and safe for use in prestressed and reinforced concrete.

Typical Properties

Property	Test Method	Value
Component		Single
Form		Liquid
Colour		Brown
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	7-9

* When added at 0.8% dosage in standard mix, Consult with experts of Conpacmix (BD) Ltd.

Compatibility

CP-MegaFlow SP103 can be used with all types of cements and cementitious materials like fly ash, GGBS, micro silica, etc. CP- MegaFlow SP103 should not be premixed with other admixtures.

Dosage

Recommended dosage is 0.5 – 2% by weight of cementitious material. Higher dosage can be used after verification by conducting lab and site trials. Optimum dosage of **BP-MegaFlow SP103** 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 SP103 is a ready to use concrete admixture. Required/calculated amount of **BP-MegaFlow SP103** 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 SP103** 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 SP103** diluted with remaining 25-30% water.

Precautions & Limitations

- ✓ Do not add **BP-MegaFlow SP103** directly to dry/lump cement & aggregate mix.
- ✓ Maintain water-cement ratio as low as possible.
- ✓ Do not increase the dosage of **BP-MegaFlow SP103** than the recommendation.

Effect of overdosing

Overdosing may result in increased workability and slightly retarding effect. In such cases, provided concrete is cured properly, ultimate strength will be higher than that of normal concrete.

Dispensing

BP-MegaFlow SP103 should be directly dispensed into the concrete mixer together with the mixing water.

Curing

BP-MegaFlow SP103 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 SP103

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:

