

# Muraplast SP103 (Formerly Known As MegaFlow SP103) High Range Water Reducing and Accelerating Superplasticiser.

## Description

Muraplast 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

## Standards

ASTM C494, Type E; BSEN 934-2

## Advantages

- Water reduction more than 30%
- Increased production speed at precast yards
- Quick hardening of concrete in initial stages
- 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

## Application

### Areas of application

Uses include to produce high slump concrete for the precast industries and other types of concrete elements like beams, columns, slabs etc. **Muraplast 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.

### Compatibility

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

### Dosage

Recommended dosage is 0.5 - 3% by weight of cementitious material. Higher dosage can be used after verification by conducting lab and site trials. Optimum dosage of **Muraplast 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.

### Effects of Overdosing

Overdosing may result in higher workability and fast setting. If intentionally or accidentally increased above the recommended limit, ensure that the stripping time of formwork is extended accordingly.

### Dispensing

**Muraplast SP103** should be dispensed into the concrete mixer together with the mixing water.

## Typical Properties at 25°C

Property	Test Method	Value
Specific Gravity	ASTM C494	1.21 +/- 0.02
Component	-	Single
Form	-	Liquid
Colour	-	Brown
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

## General Information

Package Size	20 ltr, 200 ltr, 1000 ltr and bulk
Shelf Life	12 months from date of manufacture when stored under warehouse conditions
Cleaning	Clean all equipments and tools with water immediately after use

## Health and Safety

PPE's	Gloves, goggles and suitable mask must be worn.
Precaution	Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.
Hazard	Regarded as non-hazardous for transportation.
Disposal	Do not reuse containers. To be disposed off as per local rules and regulations.
Additional Information	Refer MSDS. (Available on request.)

## Technical Support

MC Technical Services are available on request for on site support to assist in the correct use of its products.

### NOTE:

*It is the customer's responsibility to satisfy themselves by checking with the company whether information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current data sheets. However, MC-Bauchemie does not warrant or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendations relating to application and end use are given in good faith. The products are guaranteed against any manufacturing defects and are sold subject to MC- Bauchemie's standard terms and conditions of sale.*