



# MegaFlow SP404

High Performance Superplasticiser

**DESCRIPTION** **MegaFlow SP404** is a blend of special additives with superior grade naphthalene formaldehyde condensate. It helps in producing flowing concrete with prolonged slump retention.

**STANDARD** ASTM C494, Type B, D and G, BSEN 934-2

**USES** **MegaFlow SP404** is specially recommended for concretes with low water cement ratios and containing pozzolanic materials. It helps in producing easily pumpable concrete with triple blend and double blend mixes. It is used in concrete for piling, mass concrete for raft foundations, high rise towers, concrete in hot weather conditions, etc.

**ADVANTAGES**

- Very high water reduction capability >30%
- Due to high reduction of water content in the mix, production of high grade of concrete without excessive cement content is possible
- Increases durability by reducing permeability
- Very good slump retention properties even in hot climates
- Controlled hydration for temperature monitored concrete
- Better pumpability
- Chloride free and safe for use in prestressed and reinforced concrete

## TYPICAL PROPERTIES at 25°C

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

**COMPATIBILITY** **MegaFlow SP404** can be used with all types of cements and cementitious materials like fly ash, GGBS, microsilica, etc. **MegaFlow SP404** should not be premixed with other admixtures.

**DOSAGE** Recommended dosage is 1.0 - 2.5% by weight of cementitious material. Higher dosage can be used after verification by conducting lab and site trials. Optimum dosage of **MegaFlow SP404** 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.



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**EFFECT OF OVERDOSING** Overdosing may result in higher workability and delay in setting. If intentionally or accidentally increased above the recommended limit, ensure that the stripping time of formwork is extended accordingly. In such cases, however, provided the concrete is properly cured, the ultimate strength will generally be higher than the regular concrete. The effect of overdosing are increased when sulphate resistance cement is used in the concrete mixes, because of the chemical nature of the cement as compared to that of OPC.

**PACK SIZE** 20 ltr, 200 ltr, 1000 ltr and bulk

**DISPENSING** **MegaFlow SP404** should be directly dispensed into the concrete mixer together with the mixing water.

**GENERAL INFORMATION**

<b>Shelf Life</b>	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
<b>Cleaning</b>	Clean all equipment and tools with water immediately after use.

**HEALTH and SAFETY**

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

**TECHNICAL SERVICE** **CONMIX Technical Services** are available on request for onsite support to assist in the correct use of its products.



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