



# MegaFlow SP401

Advanced Superplasticiser

**DESCRIPTION** **MegaFlow SP401** is specially formulated to impart free flowing characteristics in concrete and retain the workability for prolonged periods even in hot climates. **MegaFlow SP401** gives high water reduction and hence increases the strength.

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

**USES** **MegaFlow SP401** is specially recommended for mixes with low water / cement ratio. It is used for various types of concrete applications in civil engineering structures like, high rise buildings, foundations, tunnel linings, dams, highways, etc.

**ADVANTAGES**

- High water reduction capability
- Very good slump retention properties
- Extension of concrete placing time even in hot climates
- Increases durability by reducing permeability
- Improved cohesion and particle dispersion to minimise segregation, bleeding and improves pumpability
- No excessive air entrainment
- 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	1.21 +/- 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 SP401** can be used with all types of cements and cementitious materials like fly ash, GGBS, micro silica, etc. **MegaFlow SP401** should not be premixed with other admixtures.

**DOSAGE** Recommended dosage is 0.5 - 2.5% by weight of cementitious material. Dosage outside the recommended range can be used after verification by conducting lab and site trials. Performance of **MegaFlow SP401** is best assessed after preliminary tests on site using the actual materials and mixes under consideration to determine the optimum dosage and effect on the properties such as workability, strength, setting time, etc.



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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 is 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 SP401** should be 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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