

SUPERPLAST SP 01

Sulphonated Melamine Formaldehyde Based Superplasticizer

PRODUCT OVERVIEW

Superplast SP 01 is a synthetic, water-soluble anionic polymer used as a high-range water-reducing admixture in concrete, mortar, and gypsum-based systems. Used for high strength rheoplastic self-compacting or pre-cast concrete, self leveling floor underlayments, mold plaster also used in glass-reinforced gypsum and wear resistance industrial flooring, joint, pavement tiles hardening and glazing enhancer.

KEY BENEFITS

• Improved workability and flow	• Helps reduce water demand
• Supports higher-strength concrete when mix water is optimized	• Suitable for precast and pumped concrete applications
• Can improve surface finish and placement around reinforcement	• Non-air-entraining performance is intended; verify by testing
• Improve density and compaction also improving water resistance	• Helps achieve rapid strength

TYPICAL APPLICATIONS

Ready-mixed concrete • Pumped and flowing concrete • Precast concrete elements • Pavement Tiles Shinner and Hardener • High-strength / high-performance concrete

• Self-compacting or highly flowable concrete • Cement-based grouts and mortar systems where compatibility has been confirmed.

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TECHNICAL DATA

Product type	High-range water-reducing admixture
Chemical base	Sulphonated Melamine Formaldehyde
Origin	India
Appearance	Liquid; colour may vary from clear to pale yellow / amber depending on batch
Solid content	$\geq 40 \pm 1$
pH / specific gravity	7 ~ 8
Chloride content	0.4 ~ 0.5

DOSAGE & METHOD OF USE

Initial trial dosage: 0.5–2.0% by weight of total cementitious materials for liquid SMF-type products.

Mixing: Measure the admixture accurately. Add it with part of the mixing water or as recommended by the supplier; do not pour concentrated admixture directly onto dry cement. Mix thoroughly and check slump/flow, setting time, bleeding and segregation. Adjust water.

COMPATIBILITY & LIMITATIONS

Compatibility can vary with cement type, supplementary cementitious materials and other admixtures. Conduct trials before combining with other admixtures. Do not add extra water merely to improve workability, as this may reduce strength and durability. Performance depends on mix design, temperature, batching accuracy and curing.

STORAGE, PACKAGING

Store in the original, tightly closed container in a cool, shaded place, protected from direct sunlight and extreme temperatures. Prevent contamination and freezing. Shelf life 2 years from manufacture if unopened.