

# PC-F

## Polycarboxylate Superplasticizer of High Water Reduction

### Description

PC-F is a ready-to-use liquid superplasticiser that extremely improves the superb water-reducing performance when comparing with superplasticisers based on existing polycarboxylic systems.

PC-F Polycarboxylate Superplasticizer for high water reducing has been primarily developed for applications in the ready mixed and precast concrete industries where the highest durability and performance is required.

### Standard Compliance

PC-F Polycarboxylate Superplasticizer for high water reducing complies with the requirements of the following standards: ASTM C 494, Type A & F. BS EN 934-2.

### Typical Properties

Items	Specification
Visual Appearance	Light Yellow Liquid
Solid Content (%)	50.0 ± 2.0
Density (23 °C) (kg/m <sup>3</sup> )	1.13 ± 0.02
Chloride Content (%)	≤0.20
Na <sub>2</sub> SO <sub>4</sub> Content (%)	≤4.0
Na <sub>2</sub> O+0.658K <sub>2</sub> O (%)	≤5.0
Solubility	Completely soluble

### Usage

1) PC-F for high water reducing is suitable for long-distance transported pumping concrete, high fluidity concrete, self-leveling concrete, plain concrete, free vibration self-compacting concrete, and high strength concrete, etc.

2) PC-F for high water reducing can be widely used in hydraulic project, electric power, port, railway, bridge, road, and various projects.

### Advantages

1) PC-F water reduction is up to 35% and its concrete slump is not lost in one hour.

2) PC-F has good storage stability, no precipitation or lamination at low temperature.

3) PC-F could be blended into 10% solution with water, which can be directly used as pumping aid agent.

4) Production clean degree is high: Due to formaldehyde, industrial naphthalene, acetone or other flammable and toxic chemicals being not used in production process, it meets cleaning production standard. This new production technology is a fully automated process without heat production.

5) Safety: This product is non-toxic, non-radioactive or non-flammable. There is no harmful material for steel and aggregate. There is no formaldehyde or other harmful aromatic residues. It meets the requirements of indoor and outdoor environment.

### Dosage

■ The optimum dosage of PC-F to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use.

■ Dosage range: C × 0.3% ---- 1.0%

■ Recommended dosage: C × 0.5% (calculated according to PC-F). Before using or when replacing cement, determine the optimal dosage through concrete testing.

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