

Superplasticizer Based on Polycarboxylic Ether Polymer is high-performance concrete admixture. It has high water-reduction ratio and wide adaptability with many kinds of cement. It can improve the workability of concrete while significantly reduce the mixing water of concrete.

Specification:

Appearance (20°C)	light yellow to brown liquid
Solid Content (%)	50 ± 1%
PH Value (20°C)	5~7
Proportion (20°C)	1.10 ± 0.02
Chloride Content (%)	<0.01
Alkali Content (%)	<0.3

Characteristics:

- 1) High water reducing ratio;
- 2) Achieve high efficiency at low dosage;

- 3) Wide adaptability with many kinds of cements
- 4) Improve productivity of the concrete;
- 5) Reduce the comprehensive cost of the concrete;
- 6) Improve the workability of the concrete;



Application:

Superplasticizer Based on Polycarboxylic Ether Polymer is mainly used in the production of ready-mixed concrete, precast concrete and prestressed concrete.

Concrete test:

Product in an ready-mixed concrete mixing station, the proportion and performance of concrete are showed in following tables:

Form 1—Concrete mix proportion

Component	Qty (kg/ m ³)
Cement P.O 42.5	200
Fly ash Grade I	95
Mineral powder S95	70
Medium sand	830
Gravel 5-31.5mm	1000
Water	161

Form 2—Performance

Admixture	SPC-02 PCE
Solid dosage of admixture (%)	0.17
Initial slump/ Expansion degree(mm)	220/570

60min slump/ Expansion degree(mm)	210/500
Air content (%)	2.6
Concrete status	Good Cohension and fluidity

Superplasticizer Based on Polycarboxylic Ether Polymer can be seen from the above results that the concrete product used with our Superplasticizer based on polycarboxylic ether polymer shows good workability, initial fluidity and good fluidity at 1 hour all can meet requirements of construction.

Usage

1. Generally, the dosage range is 0.25%—0.8%, it can be beyond this range properly for special cements or aggregates.
2. The recommended stirring time is at least 150s for good water reducing effect.

Packing: Flexitank, 22 MT/20'GP; 230kg/barrel, 18.4 MT/20'GP; 1100 KG/IBC drum, 22 MT/20'GP



Storage

It is non-toxic, nonflammable and can be shipped as general chemicals. Avoid direct sunlight. Keep away from fire or any kind of heat source. Stored in cool and ventilated place separately with oxidants and strong acids and alkali.

Shelf validity: Six months