



**Shandong Zhuoxing Chemical Co., Ltd.**  
**Zibo Zhuoxing Enterprises Co., Ltd.**

Polycarboxylate superplasticizer for concrete admixture

## **Introduction**

Polycarboxylate superplasticizer is a kind of high performance superplasticizer and a kind of cement dispersant in the application of cement concrete. Widely used in highways, Bridges, tunnels, high-rise buildings and other projects.

## **Advantages/Characteristics:**

1. Good compatibility with all kinds of cement, concrete slump to maintain good performance, extend the construction time of concrete.
- 2, Low dosage, high water reduction rate, shrinkage.
- 3, Greatly improve the early and late strength of concrete.
4. The product has low chloride ion content and low alkali content, which is conducive to the durability of concrete.

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5. The production process of this product is pollution-free and does not contain formaldehyde. It conforms to ISO14000 international standards for environmental protection management, and is a kind of green environmental protection product.

6. Use polycarboxylate water-reducing agent, more slag or fly ash can be used instead of cement, thus reducing the cost.

### Usage

1. Generally, the dosage range is 0.25%—0.8%, it can be used beyond this range properly for special cements or aggregates.

2. The compounding rate for specific cements is determined by tests. Recommended stirring time for its concrete stirrer is at least 150s for good water reducing effect. The concrete mixing tests should be carried out before using so as to assure the concrete quality.

### Application

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1. It is applicable to various ready mix concrete for industrial and civil architectures.
2. It is particularly applicable to various national construction works with high performance requirements for the concrete , such as water industry, marine works, seaports, traffics, electric powders etc.
3. It is applicable to the special concrete, such as high strength, high durability, self-compaction concrete.

### Technical specifications

Items	Specification					
	SPC-02 Liquid(water reducing type)	SPS-03 Liquid(slump retention type)	SPS-04 Liquid (Early strength & water reducing type)	SPS-05 Liquid(long slump retention type)	SPS-06 powder (Water reducing type)	SPS-08 Powder (Water reducing type)
Appearance	White or light yellow to brown viscous liquid	White or light yellow to brown viscous liquid	Colorless or light yellow to brown viscous liquid	Colorless to light yellow viscous liquid	White or light yellow powder	White powder
Density	1.10±0.02 g/cm <sup>3</sup>	1.10±0.02 g/cm <sup>3</sup>	/	1.10±0.02 g/cm <sup>3</sup>	500±50 Kg/m <sup>3</sup>	500±50 Kg/m <sup>3</sup>
pH (23℃)	5--7	5--7	6±1	5--7	6.0±1.0	6.0±1.0
Solid	50±1.0	50±1.0	50±1	50±1.0	97.0±1.0	97.0±1.0

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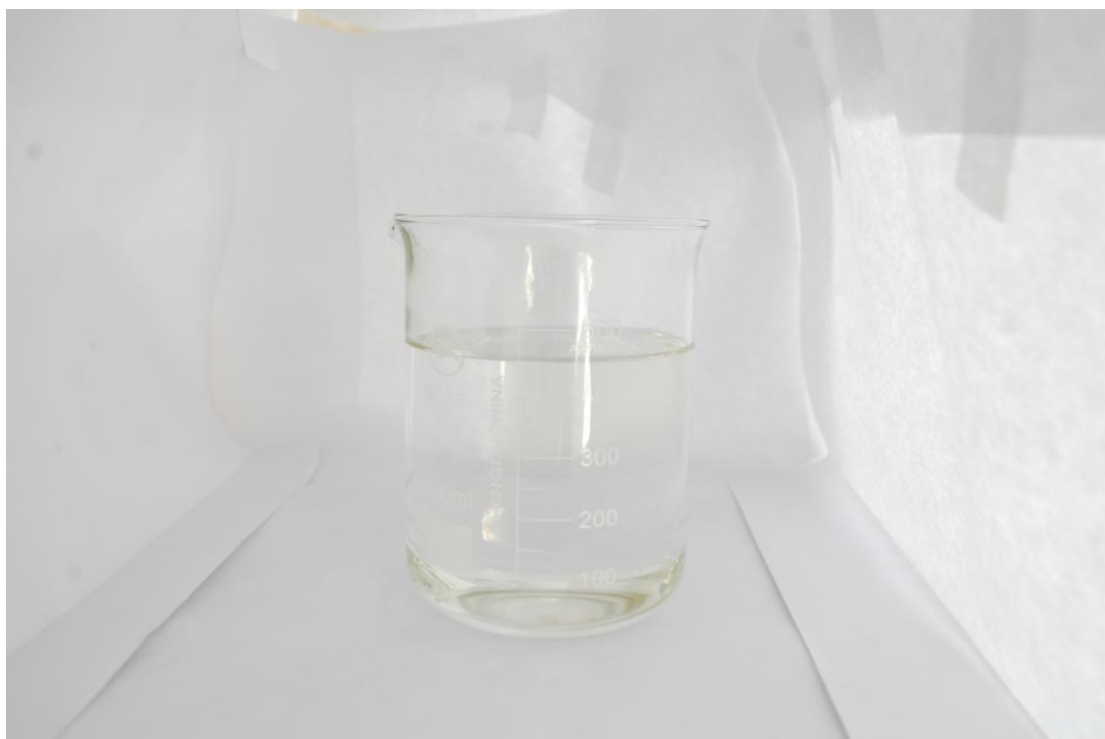
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Content%						
Moisture content%	/	/	/	/	$\leq 3.0$	$\leq 3.0$
Water Reducing Ratio%	/	$\geq 15$	$\geq 25$	$\geq 15$	$\geq 25$	$\geq 25$
Cl- %	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$
Alkali content%	$\leq 0.3$	$\leq 0.3$	$\leq 0.3$	/	$\leq 0.3$	$\leq 0.3$
Na <sub>2</sub> SO <sub>4</sub> %	/	/	/	$\leq 0.3$	/	/

**Shelf time:** six months.



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