



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

## PolyCarboxylic Acid High Performance Water Reducing Agent Used for Cement

### **Introduction**

PolyCarboxylic Acid High Performance Water Reducing Agent Used for Cement is an Eco-friendly new generation high performance polycarboxylate ether superplasticizer developed by our company with DD-912 (EPEG 3000, C6 polycarboxylate ether monomer ) as main raw material.

### **Quick Details**

Warranty:1 Year

After-sale Service:Online technical support

Project Solution Capability:total solution for projects

Application:Office Building

Design Style:Industrial

Place of Origin:China

Brand Name:ZX

Model Number:liquid

Appearance:White or light yellow viscous liquid

Mobile/Wechat:0086 13053363281,0086 17865273019

Mail:sales@zhuoxingchem.com,sales02@zhuoxingchem.com

Web site:<https://www.sdzhuoxingpce.com>,[www.zhuoxingchem.com](http://www.zhuoxingchem.com)



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Density:  $1.10 \pm 0.02$

pH value: 5-7

Solid Content:  $50 \pm 1.0$

Cl-:  $\leq 0.02$

Total Alkali:  $\leq 0.3$

Type: liquid

Usage: concrete

Function: High Water Reducer Rate

origin: china

### **Technical Principle**

The molecular chain of PCE is comb shape. The main chains of the high performance polycarboxylate superplasticizer molecular are absorbed onto the surface of the cement granules, which can effectively hinder the hydration, enhance its flowing retention ability, the branch chains surrounded by the cement granules, play dual roles of steric hindrance and electrostatic repulsion, it is totally different from the conventional water reducing agents. So the high performance polycarboxylic ether based superplasticizer has better dispersion and water reducing effect.

### **Quality Specification**

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Item	Unit	result
Appearance	/	White or light yellow to brown viscous liquid
Density	g/cm <sup>3</sup>	1.10 ± 0.02
PH	/	5-7
Solid Content	%	50 ± 1.0
Cl <sup>-</sup>	%	≤ 0.02
Alkali content	%	≤ 0.3

### Characteristics

1. High water reducing ratio: Excellent dispersion and water reducing ratio can attain 30% or above at saturated dosage, which assures improving the workability of concrete, enhancing the concrete strength and saving cement application amount. 2. Good slump retention performance: It can well delay the transporting and on-site retention time of the concrete, assure the pumping performance of the concrete. 3. Good adaptability: It has good dispersion and fluidity retention ability to varieties of silicate cement, common silicate cement, slag silicate cement and various admixtures. 4. Environmental friendly: No formaldehyde or other harmful ingredients. 5. Low energy consumption, low cost: short reaction cycle, low energy consumption, and low cost.

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**Application**

1. It is applicable to ready mix concrete, premixed or precast concrete for industrial and civil architectures, especially to low grade commodity concrete. 2. It is particularly applicable to various national construction works with high performance requirements for the concrete, such as water industry, marine works, seaports, traffic, electric power etc. 3. It is applicable to special concrete, such as high strength, high durability, self-compacting concrete.



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