



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

## **Polycarboxylate Powder**

Polycarboxylate Powder is a new generation of Eco-friendly high performance product made from TPEG.

Composed of polycarboxylate ether copolymer, its main chain anchors on the surface of cementitious binder particle while the unique comb structure as side chain stretches in the water.

The combination of electrostatic force and steric stretching effect imparts low water demand and high flowing ability to mortars.

### **Product Characteristics**

1. Wide adaptation scope: not only used in cement-based materials, but also in gypsum-based materials, strong adaptability to various kinds of organic additives, such as water-soluble polymer, dispersible polymer powders has little effect on this product.

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2. High water reducing ratio: make the mortar water reducing rate of more than 25%, greatly improving the fluidity of the mortar under the condition of same water content in mortar.
3. Early strength and high strength:
4. High durability: Reduce mortar water-cement ratio, improve durability, reduce shrinkage and variations, reduce post-curing mortar shrinkage cracking.
5. Green Environmental Production: The production process does not produce pollution of the natural environment; in line with ISO14000 International Environmental Management Standard.

### **Application area**

1. It is applicable to various ready mix concrete, precast concrete, wet mix mortar and especially dry mix mortar. It can also be used for oil well cementing operation.
2. Polycarboxylate Powder is particularly applicable to various construction works with high performance

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requirements for the concrete , such as water industry, marine works, seaports, traffics, electric powers etc.

3. It is applicable to the special concrete, such as high strength, high durability, self-compacting concrete.

### Technical Specification

Item	Unit	Standard
Appearance	/	White or light yellow powder
Density	kg/m <sup>3</sup>	500 ± 50
pH (23°C)	/	5.0 ± 7.0
Solid Content	%	97.0 ± 1.0
Moisture content	%	≤ 3.0
Water Reducing Ratio	%	≥ 25
Cl <sup>-</sup>	%	≤ 0.02
Alkali content	%	≤ 0.3

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## Application Area



## Package:

Packed in 25kg plastic woven bags with PE inner liner, 17 mt with pallets loaded in one 20' GP, 25.5 mt with pallets loaded in 40' HQ.

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## Certifications



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