



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

Polycarboxylate Monomer EPEG

Polycarboxylate Monomer EPEG is a kind of main raw material (polycarboxylate ether monomer) for producing Polycarboxylate superplasticizer with excellent slump retention and good adaptability. It is produced with vinyl ethers of Diethylene Glycol and ethylene epoxide as main raw materials.

Chemical formula



Technical Principle

Due to the special molecular structure, the space resistance of the polyether side chain is reduced, the swing of the side chain is more free, and the cohesion and entanglement of the polyether side chain is improving.

Characteristics:

1. Polycarboxylate superplasticizer with excellent slump retention and good adaptability is formed by Polycarboxylate Monomer EPEG copolymerized with acrylic acid. The synthesized PCE has good dispersion and slump retention, high adaptability and good viscosity

Mobile/Wechat:0086 13053363281,0086 17865273019

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

Web site:<https://www.sdzhuoxingpce.com>,www.zhuoxingchem.com



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reducing effects. It is especially suitable for projects using the sand and gravel with poor quality and the high content of sediment or with high requirements for concrete.

2. C4 and C5 macromonomers usually react at 30°C -40°C, while EPEG C6 monomers have very low requirements for reaction temperature, which can be completed at room temperature higher than 5°C without heating.

3. EPEG monomer can be reacted by one-pot method, which means that the prepared dripping solution can be added to the reaction system at one time and the reaction can be completed by stirring for 30-40 minutes. The synthetic water-reducing agent also has excellent performance, which can greatly simplify the production process of polycarboxylate superplasticizer.

Enterprise Quality Standard

Appearance	White or light yellow flaky solid
Moisture	0.5%max
Hydroxyl Value mg KOH/g	17-19
PH Value	8-11
Double bond retention	95%min

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