



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

Polymer Superplasticizer

Polymer Superplasticizer is the new generation admixture.

With a relatively low dosage (0.15–0.3% by cement weight),

It allow a water reduction up to 40%, concrete admixture, polyethylene, superplasticizer price

This happens because of its chemical structure which enables good particle dispersion.

What is the chemical structure of polymer superplasticizer?

It is composed of methoxy polyethylene glycol copolymer as a side chain,

attached with methacrylic acid copolymer which is the main chain.

In water, the carboxylate group dissociates, and provides a negative charge along with PCE backbone.

There is non-uniform distribution of electron cloud afforded by polyethylene oxide group,

which provides chemical polarity to the side chains.

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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The number and also the length of side chains are flexible parameters, which can be easily change.

When there is huge amount of EO units present in the side chains, they lower the charge density of the polymer, which has the high molar mass,

this enables the poor performances on the cement suspensions.

At the same time, you can check both the parameters,

i.e, long side chain and high charge density,

the number of main chain units can be much higher than the number of side chain units.



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