# wide applicability Polycarboxylate superplasticizer

## Polycarboxylate superplasticizer wide applicability

Polycarboxylate superplasticizer is in concrete, cement net slurry or mortar mix, mix before or mix mixed in order to improve the performance of concrete chemical substances.

Non-special circumstances, adding water is generally not more than 5% of the quality of the cement.

At present, in view of the special requirements of concrete engineering, has been developed to meet the various requirements of the admixture, the admixture with appropriate dosage into the concrete, can achieve some expected results. According to the action of these admixtives can be divided into water reducing agent, accelerating agent, retarder, waterproofing agent, expansion agent, defoaming agent and moistureproof agent.

Polycarboxylate superplasticizer mainly has the following three functions: 1. Improve the workability of concrete, more

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to meet the construction site;

2. By reducing water consumption, ensuring the water-cement ratio and improving the strength of concrete, and ensuring the same water-cement ratio, reasonably reduce the amount of cement, optimize the mix ratio and reduce costs;

3. Through the change of the components of the admixture, improve the special performance of concrete, such as early strength, anti-permeability, anti-freezing, slow setting and so on.

In a word, concrete admixtures for concrete itself and construction are very beneficial, is the configuration of high strength high performance low cost of concrete guarantee, concrete admixtures for concrete indispensable, is also the configuration of high strength high performance low cost of concrete key.

The main function of concrete admixtures can be divided into four kinds, one is to improve the concrete mixing logistics variable performance of admixtures, including water reducing agent, air entrain agent;

Can also improve the concrete setting time, hardening

performance of the admixture, including retarder, accelerator, etc.;

The second is to improve the durability of concrete admixtures, including air entrain agents, waterproofing agents, etc.

It is the admixture that improves concrete other performance finally, include expansion agent, release mold agent, eliminate foaming agent, moistureproof agent to wait.

To sum up, concrete admixture is good, applicable not applicable, who is more applicable to the problem is of different opinions.

Concrete admixture is an indispensable part of concrete, it is a material that can improve the performance of fresh concrete and hardened concrete.

Need to let it play a beneficial role, we need to further understand different concrete admixtures, understand its various performance and role, the correct choice and use.

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