



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

## **polycarboxylate superplasticizer synthesis**

### **Properties of concrete additives**

1. Can reduce slump loss. Add pumpability of pumped concrete.
2. can be cut short. The adulterated expander also offsets the shortening.
3. delay the early hydration heat of concrete. Decrease the temperature rise rate of mass concrete and reduce the crack outbreak.
4. improve the early strength of concrete. Avoid freezing at negative temperatures.
5. improve the strength, add anti-freeze, anti-permeability, anti-wear, corrosion resistance.
6. control alkali - aggregate reaction. Prevent steel corrosion, reduce chloride ion lax.

### **Effect of admixtures on concrete application performance**

From the previous concrete construction work can understand that the concrete admixtures on the impact of the main performance in the application of concrete performance, such as strength, compactness,

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etc.. In general, the appropriate addition of admixtures, can complete the full improvement of concrete compactness, for example, people can participate in a proper amount of water reducing agent in concrete, can stop the optimization of the water cement ratio in concrete, enhance the entire concrete structure compactness. In the process of local concrete engineering construction, we want to make the air content of concrete be fully guaranteed, can participate in the right amount of air entrain agent, and then increase the air content of concrete, complete the requirements of the project. In addition, in the setting time control, the relevant staff can stop the application of the retarder, to ensure that the concrete setting time is controlled, from the previous work can be seen, due to the application of the retarder, the concrete setting time can reach three hours. Concrete strength improvement, admixture addition is one of the important wrist, and in the engineering construction, the concrete bearing capacity request is very high, this is another performance of concrete strength assurance. Therefore, in the practice of concrete operation process, the relevant staff can add an appropriate amount of shrinkage agent, to prevent the concrete strength has a serious impact.

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