

Concrete additive superplasticizer form China professional manufacturer

Description

Concrete additive superplasticizer form China professional manufacturer is a new generation of Eco-friendly high performance polycarboxylate ether superplasticizer powder developed by our company with DD-909 (TPEG2400) as main raw material.

Effect

1. Polycarboxylate Superplasticizer is a high-performance water reducing agent, which is a cement dispersant in the application of cement concrete. It is widely used in highway, bridge, dam, tunnel, high-rise building and other projects.

2, polycarboxylic acid water reducing agent is in the condition of not affecting concrete workability, can make the unit water consumption reduced; Or under the condition of not changing the unit water consumption, the workability of concrete can be improved; Or have the above two effects at the same time, and do not significantly change the gas content of the admixture. At present, the concrete water reducing agent used are surfactants, belonging to anionic surfactants.

After

3, cement and water mix, produce hydration reaction, some flocculation structure, it is wrapped in a lot of mixing water, which reduces the workability of fresh concrete (also known as the workability, is mainly refers to the fresh concrete in the construction, namely the mixing, transportation, water and other process can maintain uniform, dense and not the performance of layered segregation phenomenon). Construction in order to maintain the required workability, it is necessary to increase the amount of water mixing, because of the increase of water will make cement stone structure in the formation of excessive pores, so as to seriously affect the physical and mechanical properties of hardened concrete, if can release the moisture of these packages, the water consumption of concrete can be greatly reduced. In the process of preparing concrete, adding proper amount of water reducing agent can play such a role well. Concrete mixed with water reducing agent, water reducing agent hydrophobic group directed adsorption on the surface of cement particles, and hydrophilic group pointing to an aqueous solution, a single molecule or multiple molecular layer adsorption film. Due to the orientation of the surfactant

adsorption, surface of cement colloidal particles contain the same sign of electric charge, and so on under the action of the same, not only can make the cement - water system in a relatively stable state of suspension, and can make the cement in the early water flocculation structure which is formed by the collapse, which will release of the water in the flocculation structure, achieve the goal of water reducing. After the addition of water reducing agent, not only the workability of freshly mixed concrete can be improved, but also the pore volume of cement stone can be significantly reduced, the cement stone is more dense, and the compressive strength of concrete can be significantly increased due to the significant decrease of water-cement ratio in concrete. The addition of water reducing agent, but also the hydration speed of cement, condensation time are affected. All of these properties are important in practice.

Data indicators

Item	Unit	Standard
Appearance	/	White or light yellow powder
Density	kg/m ³	500±50
pH (23℃)	/	6.0±1.0

Solid Content	%	97.0±1.0
Moisture content	%	≤3.0
Water Reducing Ratio	%	≥25
Cl ⁻	%	≤0.02
Alkali content	%	≤0.3

