



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

Concrete admixtures for highway engineering

Mechanism of action:

After adding Concrete admixtures for highway engineering in concrete, due to the variety of different, the effect is different, most are physical effects, such as adsorption on the surface of cement particles to form an adsorption film, change the potential, produce different suction or repulsion; Some can destroy the flocculation structure, improve the stability of the cement diffusion system, and improve the condition of cement hydration. Some reduce the surface tension and surface energy of water, and a few are directly involved in chemical reactions, forming new compounds with cement.

Because Concrete admixtures for highway engineering can effectively improve the performance of concrete and have good economic benefits, they are widely used in many countries and become an indispensable material in concrete. Especially highly efficient use of reducing agent, cement particles can fully dispersed, water consumption is greatly reduced, cement potential into full play. The cement stone is relatively dense, pore structure and interface microstructure is well improved, so as to make the physical and mechanical properties of the concrete had

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the very big enhancement, whether it be impervious, or the chloride ion diffusion, carbide, resistance to sulfate erosion. And impact resistance, wear resistance and so on various aspects are better than that of without admixture of concrete admixture, not only improve the strength, improve the workability. It can improve the durability of concrete. It is possible to prepare high performance concrete with high construction property, high strength and high durability only by adding water reducing agent.

Performance characteristics:

The Concrete admixtures for highway engineering has the following functions in improving the performance of concrete:

1. The water consumption of concrete can be reduced or the fluidity of concrete can be increased without increasing the water consumption.
2. The setting time of concrete can be adjusted.
3. Reduce bleeding and segregation, improve workability and water washing resistance.
4. The loss of slump can be reduced and the pumpability of pumped concrete can be increased.
- 5, can reduce the contraction. The addition of expansion agent can also compensate for the contraction.

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6. Delay the initial hydration heat of concrete, reduce the temperature rise rate of mass concrete, and reduce the occurrence of cracks.
7. Improve the early strength of concrete and prevent it from freezing under negative temperature.
- 8, improve the strength, increase the frost resistance, permeability, wear resistance, corrosion resistance.
9. Control alkali-aggregate reaction, prevent steel corrosion and reduce chloride ion diffusion.
10. Make concrete with other special properties.
- 11, reduce the concrete viscosity coefficient, etc.



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Usage:

1. The mixing amount can be adjusted according to the engineering requirements after the test;
- 2 generally with mixing water at the same time into the mixer, if the delay of mixing or concrete before adding and slightly mixing plasticizing effect is good.
3. In order to guarantee the use effect, it is suggested that the user should determine the dosage and method of mixing according to the specific situation of the project by trial test before the first use of this product or the replacement of cement varieties in the project.

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