



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

Polycarboxylate type superplasticizer

Use concrete admixture at first, it is to save cement only, along with the development of building technology, admixture of concrete admixture has become the main measure of improving concrete performance.

Because of the high efficiency water reducing agent, large fluidity concrete, self-compacting concrete, high strength concrete is applied; Due to the thickener, the performance of underwater concrete can be improved: due to the retarder, the time between the cement setting can be extended, so that it is possible to reduce the slump loss, prolong the operation time; due to the antifreeze, the freezing point of the solution can be reduced, or the deformation of the ice crystal structure can not cause freezing damage. It is possible to carry out construction under negative temperature.

Precautions for the use of polycarboxylic acid water reducer

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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Polycarboxylic acid superplasticizer has water reduction, enhancement and slump protection, is an important additive to improve the performance of concrete, but, in use, there are also some matters need to pay attention to.

Precautions for the use of polycarboxylic acid water reducer:

1, there are problems with the adaptability of cement. For individual cement will appear low water reduction rate, slump loss is larger phenomenon, therefore, in the poor adaptability with cement, the need for polycarboxylic acid water reducer test adjustment, in order to ensure the use of good results.

2. Sensitive to the change of raw materials. When the quality of sand, stone materials and admixtures such as fly ash, mineral powder and other raw materials changes greatly, it will have a certain impact on the performance of concrete, and it needs to be adjusted appropriately at this time.

3. Because of the high water reduction rate of polycarboxylic acid superplasticizer, the water consumption is very sensitive to the slump of coagulation coating. Therefore, in the process of use must strictly control the amount of polycarboxylic acid water reducing agent and concrete water consumption. Once excess, concrete will appear segregation, bleeding, hardening and gas content is too large and other undesirable phenomena.

4. It is particularly sensitive to the aggregate mud content, and too much mud

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content will reduce the performance of polycarboxylic acid water reducer. Therefore, the quality of aggregate should be strictly controlled when using polycarboxylic acid water reducer. The dosage of polycarboxylic acid water reducer should be increased when the aggregate mud content is increased.

5, polycarboxylate superplasticizer can not be mixed with naphthalene superplasticizer, the use of poly carboxylic acid superplasticizer must use naphthalene superplasticizer mixer and agitator wash clean, otherwise it may lead to poly carboxylic acid superplasticizer lose the effect of water reduction.

6, should avoid long-term contact with iron materials. Because polycarboxylic acid superplasticizer products are often acidic, and long-term contact with iron products will occur slow reaction, and even make its color darker, darker, resulting in a decline in product performance. It is recommended to use polyethylene plastic or stainless steel barrels for storage to ensure its performance stability.



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