



ACC Superplasticizer Polycarb—PCA-300P

Powdered polycarboxylate superplasticizer

Description

PCA powdered polycarboxylate superplasticizer has advantages such as high water reduction, good slump loss resistance, workability, and compatibility. It has homogeneous powder particles, good fluidity, easy-to-disperse characteristic, and is applicable for high-strength, high-fluidity concrete, self-leveling mortar, grout, and other cement-based powder materials. It can also be used as a dispersant for gypsum-based powder materials, refractories, and ceramics.

Features

- High water reduction rate: This product can reduce the water content of concrete by 35% and above, that of mortar by more than 25%. It also has good slump loss resistance.
- It significantly increases the concrete strength while effectively decreases the occurrence of concrete shrinkage cracks.
- Good compatibility: It is compatible with cement of a range of specifications and types, slag, fly ash and other activated additives.
- Good stability: stable performance, soundness, long shelf life.
- Safe: non-toxic, non-irritant; non-chlorinated, not corrosive to rebar; ultralow alkali content which minimizes the possibility of alkali-aggregate reaction.

Specifications

Item	Value
Appearance	white, gray powder
Solid content	≥ 96.0%
Bulk density	0.4-0.6 g/cm ³
pH (5% solution)	7.0 ± 1.0
Chlorine content %	≤ 0.1%
Total alkali content %	≤ 2.0%

Usage and Precautions

- Dosage: The common dosage is 0.1-0.5% of the cement materials. The most suitable dosage should be based on the conditions of project materials, ambient temperature, the requirements of construction, etc., and tested on site.
- Mixing: The product should be poured into a cement mixer concurrently with cement, sand, gravel and other project materials. Do not dissolve it in water beforehand or add it to wet sand or gravel directly. The mixing time should be based on the homogeneity of the mixture.
- Compounding: The product can be compounded with retarders, accelerators, and other admixtures, but can't be with naphthalene, aminosulfonate, aliphatic high range water reducers. A compatibility test should be performed before compounding with other functional admixtures.

Packaging and Storage

The product is susceptible to moisture when exposed to air. It should be stored in a dry environment at room temperature (<math><40^{\circ}\text{C}</math>) and avoid bearing weight in case of agglomeration. The shelf life is 12 months. Please expeditiously use the product after opening.

Health and Safety

Wear suitable protective equipment to prevent contact with eyes, skin and clothing. Keep and store in a cool & dry place and keep away from direct heat and light. For further information please follow the Material Safety Data Sheet.

Limited Warranty Notice

While ACC guarantees our products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with ACC that the product is suitable for the intended use. Technical characteristics are listed for guidance only.

Technical Services

We have a perfect after-sales service mechanism, provide technical advice for users, product performance can reach the best user satisfaction effect.



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