

# PCA<sup>®</sup>-III

## Polycarboxylate Superplasticizer with High Slump Retention

### Brief Introduction

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PCA<sup>®</sup>-III is based on comb polymer technology and is the newest generation of admixture that is specially formulated for slump retention. Along with polycarboxylate superplasticizer added into concrete, PCA<sup>®</sup>-III has been created to produce superior slump retention. PCA<sup>®</sup>-III contains no formaldehyde, calcium chloride or other purposely added chlorides, and will not initiate or encourage the corrosion of the steel present in the concrete. PCA<sup>®</sup>-III is formulated to comply with the subsequent specifications for concrete admixture: ASTM494, Type F; BS EN934:2/3.2.3.

### Product Features

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- **Excellent slump retention:** PCA<sup>®</sup>-III provides a long slump life with minimal influence on setting time.
- **Middle water reduction:** PCA<sup>®</sup>-III is able to generate moderate water reduction at the dosage for required slump retention.
- **High compatibility:** Compatible with a significantly greater cement type and mineral admixtures range.

### Fields of Application

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PCA<sup>®</sup>-III creates concrete with a satisfactory slump life, while producing no negative effects on setting time and other concrete performances. Therefore, it is ideal for a variety of concrete uses where slump retention is critical, such as:

- **High-flowability concrete**
- **Ready-mixed concrete**
- **Long-distance transport**
- **Pumped concrete**
- **Hot weather concreting**

## Method of Use and Matters Needing Attention

- **Dosage:** The addition rate of the PCA®-III may vary with slump life requirement, the kind of cementitious materials and ambient weather condition. The standard dosage ranges from 0.1% to 5% by total weight of cementitious materials.
- **Mixing:** Don't mix with naphthalene-based admixture. If other admixtures, such as retarding and corrosion-inhibiting admixture, are simultaneously needed for any particular projects, prior compatibility tests should be undertaken.

## Packaging and Storage

- PCA®-III is normally packaged 200L or 1000L per barrel drum. Other types of packaging are available as requested.
- PCA®-III should be stored in a cool, dry environment, and if in cold conditions, the product should be properly insulated and defrosted with correct stirring to reactivate its performance. The maximum product life is within one year if maintained in the proper conditions.

## Security Matters

PCA®-III contains no hazardous substances that require labeling. However, using standard handling procedures with the product is recommended. Wear gloves and eye protection and wash the skin with soap and water at the end of shifts or breaks if contact with the product occurs.

## Technology and Service Characteristics

To guarantee the desired concrete performance, we provide a technical consulting service dealing with the design of concrete mix proportion and experiments on the optimization of mix proportion. Our technical staff offers an on-site directing service for free.

NOTE: Field service, where provided, does not constitute supervisory responsibility. Suggestions made by SOBUTE whether verbal or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, but not SOBUTE, are responsible for carrying out procedures appropriate to the specific application.



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江苏苏博特新材料股份有限公司  
Sobute New Materials Co.,Ltd.

地址：江苏省南京市江宁区醴泉路118号 211103  
电话：025-52837588 传真：025-86630885  
网址：www.cnjsjk.cn Email: info@cnjsjk.cn



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