High Performance Polycarboxylate Superplasticizer

LIAONING KELONG FINE CHEMICAL CO., LTD.
Company Profile

Liaoning Kelong Fine Chemical Co. Ltd. was founded in 2002, consisting of over 500 staffs by now, among which the 30 are research specialist staff with master and doctor degrees.

The company is a fine chemical supplier based on ethylene oxide and has satisfied perfect product lines for polycarboxylate-based superplasticiser, cutting fluid of silicon for solar energy, polyester elastomer, multifunctional finishing agent, coating additives, food additives and building materials additives. Its products have been widely used in daily use, medicine, spinning and textile printing, coating, printing ink, oil exploitation, metal processing, building and IT industries.
The company comes out among the best suppliers of polycarboxylate-based superplasticiser at home, and has customers across the country and products well sold in America, Russia, Japan, Korea, Israel, Malaysia and New Zealand, etc. The 8 offices set throughout the country aim to better serve our customers with the best and quickest quality products and technical supports.
SPS-100
Slump-retaining agent

Product Introduction

SPS-100 is a new excogitate environmental polycarboxylate type slump retention agent. It is benefit for low slump concrete and concrete of losing slump rapid. Greatly enhance plasticity of concrete. It is canary viscous liquid, no toxic, hazardous, and corrosive.

Production Characteristic

1. Good slump retaining ability: It can inhibit the reaction rate of hydration.

2. Slow release: It is low initial water reduction and high later, it has excellent dispersion for cement.

3. High strength gained rate: Greatly increasing early and after strength, reducing energy loss.

4. Special adaptability: It can be widely used in premix of common concrete, grouting concrete, high strength and durability concrete.

Methods of Use

1. The recommend mix proportions is superplastizer:
   SPS-100 = 82−73 (mass ratio).

2. It can be mixed in metric water or added in concrete mixer. The recommended stirring time is 150s at least. Concrete mixing test should be made before using in order to ensure concrete quality.

3. It can be compounded together retarder, defoamer, air-entraining reagent, lignin sulfonic natrium and so on.

4. SPS-100 product is a product as raw materials. It is not suggested to use SPS-100 products directly in concrete or other materials without formulation blending.

The compatibility of SPS-100 products to particular cement, aggregate and the other raw materials in the application is not guaranteed. It should be obtained through trial mixes and formulation technologies by the users.

Scope of Application

1. It is especially suitable to high strength concrete for railway, harven, traffic, bridge, plant and so on.

2. It is suitable for the preparation of high strength, high durability, self-compacting, steel fiber and self-leveling concrete.

Properties of Application

Test Data-Sheet for SPS-100 is showed as follows. It was obtained according to the China National Standard Method.
Technical Specification

<table>
<thead>
<tr>
<th>Items</th>
<th>Unit</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Appearance</td>
<td>/</td>
<td>Canary viscous Liquid</td>
</tr>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>1.05-1.10</td>
</tr>
<tr>
<td>PH Acidity</td>
<td>/</td>
<td>6.5-8.5</td>
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<tr>
<td>Solid Content</td>
<td>%</td>
<td>40</td>
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<tr>
<td>Cl</td>
<td>%</td>
<td>≤0.1</td>
</tr>
<tr>
<td>Na, SO₄</td>
<td>%</td>
<td>≤0.5</td>
</tr>
</tbody>
</table>

Package & Storage

1. Package: IBC tank.
2. Stored under 0-35°C, far away from sunlight.
3. The shelf-life is normally six months.

Handling Notes

1. SPS-100 is free from alkaline. It is non-toxic, hazardous, and corrosive. It is inedible.
2. When it contacts to eyes and skin, the affected area shall be immediately rinsed with plenty of water for minutes. Consult a physician if irritation persists.
3. Keep container closed when it is not in use. Do not store the product directly under sunlight.