

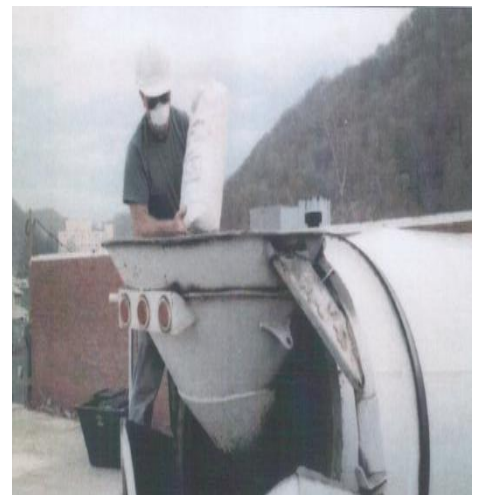
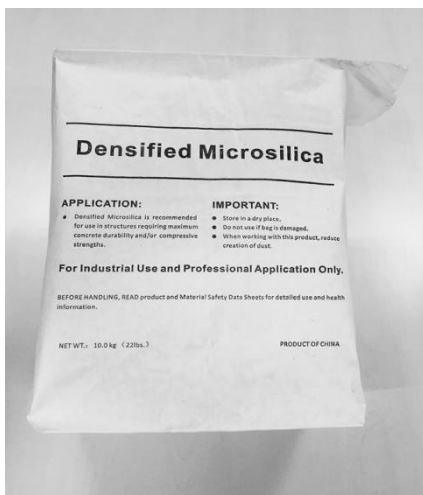


ACC Microsilica Water Soluble Package



New Package • New Supply Mode

(Dose Package, No Debagging, Direct Mixing)



Environment-friendly

Healthy

Economical

Convenient



Introduction

ACC water-soluble bag is made by degradable or easily-degradable materials. Microsilica packed in this water-soluble bags can be added directly to a central or truck mixer without debagging. The bags are designed to disintegrate through a combination of wetting and grinding the packing materials during concrete mixing, which can be swelled, gelatinized and easily dispersed.

Advantages

✧ **ENVIRONMENT-FRIENDLY:**

1. ACC water soluble bag can be thrown into the concrete mixer directly for end use, without debagging which avoids dust in the using process;
2. Water soluble bag can be 100% degraded, no need to be disposed, which can effectively reduce the environmental pollution and fulfill our social responsibility.

✧ **HEALTHY:**

By using water-soluble bag, it can effectively avoid dusts during every stage such as transportation, using process.etc, which can prevent all kinds of physical diseases caused by inhalation of dust, and protect the workers' health.

✧ **ECONOMICAL:**

Compared with jumbo bag: It can be directly distributed and used in the project site, which avoids transit shipment and subpackage, which can greatly save the costs on transportation and debagging facilities & labor costs.

Compared with normal small bag: No need to do debagging and can be used directly, which can greatly reduce the working process and save operation time & labor costs.

✧ **CONVENIENT:**

ACC water-soluble bag size can be customized according to the clients' technique requests, and accurately used based on the usage amount, which is easily-operated and can effectively avoid inaccuracy of measurement or waste.





■ How To Use?

1. Limit the load size of central mixer. We recommend that loads be restricted to the rated mixing capacity of the trucks, which is defined by ASTM C 94 as 63% of the drum volume, or other loading quantity upon actual situation.
2. Select the appropriate number of bags for the volume of concrete being produced.
3. Add unopened bags to central mixer with other mix ingredients.
4. Thoroughly mix concrete in truck, at least 100 revolutions at mixing speed.

■ Precautions For Use:

1. Do not overload trucks. This is important even for central mix plants because it may be necessary to perform additional mixing of the silica-fume concrete once it is in the truck.
2. When adding unopened bags of silica fume directly to concrete, thorough mixing is extremely critical to disperse the silica fume and to destroy the bags.
3. If bags failed to be degraded, most of the cases it is caused by inadequate wetting and grinding of the water soluble materials during concrete mixing.

■ Transportation & Storage Requirements:

Products need to be well protected during transportation process, to avoid any physical damages.

Store this material as any other cementitious material in bags. This means keep the material dry and protected from physical damage to the bags.



Water-soluble Paper Bag

Features:

1. Bag size can be ranging from 10-20kg based on clients' technique requests;
2. Based on the usage amount requests, clients can adjust the quantity of bags to be thrown into the concrete mixer;
3. Paper bag can be directly swelled, gelatinized and degraded, no need to do debagging or recycle treatment of the bags.

Supply :

- ACC now owns 2 sets of subpackage machines, with daily subpackage quantity at 30-50 tons, and monthly supply capacity reaches 1000-1500tons.

Structure & Materials for Water Soluble Paper Bag :

- ❖ Double layers, square-shaped, with outside valve bag mouth;
- ❖ Inside core paper is flexible with natural color from USA Dragon brand;
- ❖ Outside white paper is water-soluble material made from Canada Polar Bear paper;
- ❖ Its weight & size can be customized based on clients' demand requests. (ACC recommends with 10kg size)

NOTES:

1. Water-soluble paper bag is special customized package, which needs advanced plan for better arrangement of production schedule;
2. Finished products cover a large area when in stock, the best shipping quantity in one batch is within 300tons.



Water-soluble PVA Bag

Features:

1. Water soluble, it can be soluble in water, also in cold water. The speed of water solubility and water temperature can be choose and designed.
2. Water solubility: star to dissolve <25s, dissolve completely<20min. No filamentous flakes after complete dissolution.
3. Antistatic, strong tensile strength, uniform tension, and do not vacuum.
4. Eco-Friendly, Non-polluting and non-toxic. It's biodegradable and can be degraded into water and CO2.
5. It can be monochrome printed. Easy to use.

Supply :

ACC now owns 2 sets of subpackage machines, with daily subpackage quantity at 15-20 tons, and monthly supply capacity reaches 450-600tons.

Specifications & Materials for Water Soluble PVA Bag :

- ❖ **Material:** PVA (polyvinyl alcohol), non-toxic and non-polluting.
- ❖ **Specification:**
 - ❖ Size: 380mm X 500 mm
 - ❖ Thickness: 60um ± 5%
 - ❖ Weight: 10kg bag, about 30g each
 - ❖ Other package can be customized.
- ❖ **Technology:** Film blowing, directly form into the cylinder.
- ❖ **Mechanical Property:**
 - ❖ Strong modulus: 2500~400kg/cm²,
 - ❖ tensile strength: 400~200kg/cm²,

NOTES:

1. Work environment: indoor temperature is 18-22 °C , relative humidity is better to be 40-50%. (To avoid dry and brittle cracks in winter, humid and adhesion.)
2. Storage condition: Store at an air humidity (relative humidity) of less than 60%.
3. The product is not in contact with water-soluble film with strong acid, strong base, chlorine free radical and other substances that can react with PVA (such as borax, boric acid, some dyes, etc.).
4. Do not touch the water. Avoid saliva spray on the water-soluble film during operation. When the rest is suspended, the outer bag is kept sealed to avoid contact with humid air for a long time.



ACC Microsilica in Water Soluble Package

Products:

Used in Densified Microsilica G85D, G92D and G94D.

Package:

Water-soluble Paper Bag

❖ 10 kg with pallets:

10 kg per bag; 840kg/pallet; with cardboard covering up and down; 16.8mt in a 20" container.

❖ 10 kg without pallets:

10 kg per bag; covered by protective net; 18mt \pm 10% in a 20" container.



Water-soluble PVA Bag

10kg per bag, 720kg into a carton, palletized, 14.4mt \pm 10% in a 20" container.



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