

POLYCARBOXYLATE SUPERPLASTICIZER

ADVANTAGES

- Based on the latest chemistry for superplasticizing concrete.
- Excellent for Precast/Prestressed Concrete.
- Steam curing may be reduced or eliminated.
- Up to 40% water reduction.
- Improves concrete workability.
- Higher strengths may be achieved more economically.
- Improves cohesiveness and reduces concrete segregation.
- Easily adaptable to fast track paving applications.
- Beneficial in all types of high strength concrete applications.
- Allows concrete placement in difficult access or heavily reinforced areas.
- Produces concrete with lower permeability.
- Concrete achieves higher durability.
- Reduced shrinkage cracks and creep.
- Higher flexural strength.
- No need for admixture dispensers because Supercizer PCE is packaged in a patented water-soluble Fritz-Pak inner bag for convenient use at the plant or job site.

DESCRIPTION

Fritz-Pak Supercizer PCE is designed to give the greatest possible water reduction using the most modern chemistry available today. Fritz-Pak Supercizer PCE is a dry powdered admixture, packaged in a patented, ready-to-use, water-soluble bag.

When used as a high range water reducer, Supercizer PCE will reduce water requirements up to 40% and increase concrete compressive strength at all ages, reduce permeability and increase durability. When used to increase slump, typically 1 bag per yard of concrete will increase slump by 6-8 inches.

Supercizer PCE is recommended for all types of concrete where improved concrete performance with a lower water-cement ratio, ultra-high early strengths and improved slump characteristics are desired. Supercizer PCE does not contain calcium chloride, nitrates, nitrites or other potentially corrosive materials and is compatible with all standard concrete admixtures.



DIRECTIONS

1. Determine the amount of Supercizer PCE required. See Recommended Dosage Rate.
2. Each 1-lb Supercizer PCE package is double bagged. Remove the protective outer bag and add the water-soluble Fritz-Pak inner bag to the concrete mix. The entire inner bag will easily dissolve.
3. Mix at high speed for 5 to 7 minutes to insure that the Supercizer PCE is uniformly dispersed throughout the mix. **Improper mixing can result in poor performance.**

RECOMMENDED DOSAGE RATE

To achieve up to 40% water reduction, we recommend using one to two 1-lb bags of Supercizer PCE per yard/meter of high performance concrete, where the cementitious content is greater than 600 lbs/yard or 400 kg/meter. At the recommended dosage, it is equivalent to 0.17% - 0.35% by weight of total cementitious material.

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Concrete temperature, ambient temperature or concrete mixes containing accelerators, retarders, or special admixtures such as silica fume may require dosage rates outside the recommended range. Contact your Fritz-Pak distributor with any questions concerning the dosage rates for this

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product. It is recommended that testing be done to determine the suitability of Supercizer PCE to your mix designs.

COMPATIBILITY

Supercizer PCE is compatible with all air-entraining admixtures, calcium chloride and other admixtures. When used with other admixtures, each one must be dispensed separately into the mix.

APPLICABLE STANDARDS

Currently under testing for the following:
ASTM C-494 Type F, AASHTO M-194 & CRD C-87

PACKAGING

- 1-lb water soluble bag, 30 bags per case, 35 cases per pallet (item #97190)
- 50-lb paper bag, 40 bags per pallet (item #97191)

FAQs

- Q. What is the shelf life of Supercizer PCE?
A. If stored properly, about 2-5 years. **If the material ever seems hard or caked, do not use it. It will not break up in the mix.**
- Q. Will it discolor the concrete?
A. No. In fact, adding Supercizer PCE before adding color will improve the mixing of color into the concrete.
- Q. Will it change the set time?
A. No. Supercizer PCE is a non-retarding superplasticizer.
- Q. Will Supercizer PCE affect the air content of my concrete?
A. No. While most PCEs in liquid form do have air entraining properties, we have blended in a defoamer to make our product 'air neutral', meaning there should be no affect on air content.

- Q. Will it change my concrete strength?
A. If you use less water when adding Supercizer PCE, your concrete will be stronger. If your water content is not changed, strength will increase minimally.
- Q. What standards does it meet?
A. The product is currently under testing for ASTM C-494, type G, AASHTO M-194 and CRD C-87 standards.
- Q. Is Supercizer PCE good for shotcrete?
A. No. For shotcrete we recommend the use of Supercizer 5.
- Q. What makes Supercizer PCE different from your other admixtures?
A. Supercizer PCE was designed using the most recently developed chemistry for water reduction in concrete (polycarboxylate ether). Many of our customers who use liquid PCE in their ready-mix operations asked us to make a powdered version for on-site dosing, much like our other products.

PRECAUTIONS

All Fritz-Pak Concrete Admixtures should be stored in a dry location, protected from breakage, deterioration and contamination. They are not subject to damage from freezing temperatures.

WARRANTY

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of Fritz-Pak Corporation and users should make their own tests to determine the suitability of these products for their own particular purposes. Because of numerous factors affecting results, Fritz-Pak Corporation makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for purpose. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of Fritz-Pak Corporation for claims arising out of breach of warranty, negligence, strict liability, or otherwise are limited to the purchase price of the materials.

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