

HIGH-PERFORMANCE SUPERPLASTICIZER

ADVANTAGES

- Designed for very high early and ultimate strength with smoothest possible finish.
- 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 modulus of elasticity.
- Type I cement may be substituted for Type III cement.
- No need for admixture dispensers because Supercizer 7 is packaged in a patented water-soluble Fritz-Pak inner bag for convenient use at the plant or job site.

DESCRIPTION

Fritz-Pak Supercizer 7 is a dry powdered admixture, packaged in a patented, ready-to-use, water-soluble bag. Supercizer 7 is a superplasticizer, uniquely formulated to provide maximum water reduction for high early strengths while producing stronger, more durable concrete. When used as a high range water reducer, Supercizer 7 will reduce water requirements up to 40% and increase concrete compressive strength at all ages, reduce permeability and increase durability. Supercizer 7 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 7 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 7 required. See Recommended Dosage Rate.
2. Each 2.5-lb or 1.5-kg Supercizer 7 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 7 is uniformly dispersed throughout the mix. **Improper mixing can result in poor performance.**

RECOMMENDED DOSAGE RATE

Use a dosage rate equal to 4 to 12 ounces per 100 pounds (2.5 to 7.5 grams per kilogram) of total cementitious materials (0.25 to 0.75 %). **One bag of Supercizer 7 is recommended for each cubic yard (cubic meter) of concrete.** Due to the high level of water reduction (up to 40%), concrete produced with Supercizer 7 should have a water-cement ratio less than 0.4. 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. It is recommended that testing be done to determine the suitability of Supercizer 7 to your mix designs.

COMPATIBILITY

Supercizer 7 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

ASTM C-494 Type G, AASHTO M-194 & CRD C-87

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PACKAGING

- 2.5-lb water soluble bag, 18 bags per case, 24 cases per pallet (item #97140)
- 50-lb paper bag, 40 bags per pallet (item #97142)

FAQs

- Q. What is the shelf life of Supercizer 7?
 A. If stored properly, about 1-3 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 7 before adding color will improve the mixing of color into the concrete.
- Q. Will it change the set time?
 A. Yes. Supercizer 7 is a retarding superplasticizer.
- Q. Will Supercizer 7 affect the air content of my concrete?
 A. No, at the recommended dosage rate, no change in entrained air content should occur.
- Q. Will it change my concrete strength?
 A. If you use less water when adding Supercizer 7, your concrete will be stronger. If your water content is not changed, strength is not

changed.

- Q. What standards does it meet?
 A. It meets ASTM C-494, type G, AASHTO M-194 and CRD C-87 standards.
- Q. Is Supercizer 7 good for shotcrete?
 A. No. For shotcrete we recommend the use of Supercizer 5.

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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