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SUPERCIZER 1

SUPERPLASTICIZER

As a slump enhancer, Supercizer 1 may be added with the normal amount of mix water to produce more flowable concrete with up to a 6 inch slump increase. When used as a mid-range water reducer, Supercizer 1 will increase concrete compressive strength, reduce permeability, and increase durability.

ADVANTAGES

- 20% water reduction
- Reduced segregation in mix
- Lower permeability
- 6 inch slump increase

CERTIFICATIONS

ASTM C-494 Type F; AASHTO M-194; CRD C-87

PACKAGING

ITEM NUMBER	WEIGHT	BAGS PER CASE	CASES PER PALLET
95575	1.75 pounds	24	25
95576	50 pounds	1	40

DOSAGE

Use a dosage rate equal to 5 to 7 ounces per 100 pounds (3 to 4.5 grams per kilogram) of total cementitious materials (0.30 to 0.45%).

One 1.75 pound bag of Supercizer 1 is recommended for each cubic yard of concrete to increase the slump up to 6 inches or to achieve up to 20% water reduction. The slump gain will remain in effect for 30 to 45 minutes. The concrete will then gradually return to the original slump. Concrete temperature, ambient temperature, or the presence of accelerators or retarders can affect dosage rates. Contact your Fritz-Pak distributor with any questions concerning the dosage rates.

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DIRECTIONS

1. Determine the amount of Supercizer 1 required for the desired slump.

2. Remove the protective outer bag and add the water-soluble inner bag to the concrete.

3. Mix at high speed for 5 to 7 minutes to ensure that the Supercizer 1 is uniformly dispersed throughout the mix. Improper mixing can lead to poor performance.

4. Concrete containing Supercizer 1 may be redosed if necessary.

FREQUENTLY ASKED QUESTIONS

QUESTIONS	ANSWERS
What is the shelf life of Supercizer 1?	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.
How long will the slump change last?	30-45 minutes. The concrete will gradually return to the original slump. Time will be shorter in warm weather.
Will it change the set time?	Supercizer 1 is a slight retarder. In temperatures between 50° and 70°F you may see up to an hour of set retardation.
Will it affect the air content?	It may increase air content 1-2%. If air content is critical in your application eliminate the addition of air entrainment admixture at the plant and correct the air content at the job site using Super Air Plus.
Will it change my concrete strength?	If water is reduced during the batching, you should expect an increase in strength.
Is Supercizer 1 good for use in the winter?	No. Supercizer 5 should be used in the winter.
Can Supercizer 1 be redosed if slump changes?	Yes. You may redose to maintain your slump.
Is Supercizer 1 compatible with other superplasticizers?	Supercizer 1 is compatible with most other superplasticizers. However, due to the constant change in formulations by other manufacturers, we strongly recommend testing for compatibility first.

COMPATIBILITY AND STORAGE

Supercizer 1 is compatible with most concrete and cement admixtures. When using more than one admixture, each product should be dispensed separately. Supercizer 1 does not contain calcium chloride, nitrates, or other potentially corrosive materials. Store in a dry location, protected from breakage, deterioration, and contamination. Supercizer 1 is not subject to damage from freezing temperatures.

WARRANTY

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