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FR-1 WATER REDUCING ADMIXTURE

Fritz-Pak FR-1 is a powdered water-reducing admixture that produces a more uniform and workable mix. FR-1 is recommended for stuccos, bagged concrete, grout, and other cement based materials. It does not contain calcium chloride or other corrosive materials.

ADVANTAGES

- Increased compressive strength
- Improved cohesiveness and reduced segregation in the mix
- Improved concrete durability
- 10% reduction in water requirements

CERTIFICATION

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

PACKAGING:

ITEM NUMBER	WEIGHT	BAGS PER CASE	CASES PER PALLET
95910	1 pound	30	25
95913	50 pounds	1	40

DOSAGE

Use a dosage rate equal to 1.5 to 2.0 ounces per 100 pounds of total cementitious materials for a 5 to 7% decrease in water requirements. Concrete mixes containing accelerators, retarders, or special admixtures such as silica fume may require dosage rates outside the recommended range.

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DIRECTIONS

1. Determine the amount of FR-1 required. See Recommended Dosage Rate.

2. Each FR-1 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 ensure that the FR-1 is uniformly dispersed throughout the mix. Improper mixing can result in poor performance.

FREQUENTLY ASKED QUESTIONS

QUESTIONS	ANSWERS
What is the shelf life of FR-1?	If stored properly, about 1 to 2 years.
What is the difference between a water reducer and a superplasticizer?	A water reducer has a limited capability in dispersion or water reduction, usually no more than 10% water reduction. A superplasticizer is much stronger material and can reduce water content up to 40 %.
Will FR-1 discolor the concrete?	No, at the recommended dosage rate FR-1 will not discolor the concrete.
Does FR-1 affect the strength of the concrete?	Yes, if you use less water when adding FR-1, your concrete will be stronger.
Will it change the set time?	Yes. It is a slight retarder.
Will FR-1 affect the air content?	No.
Can I lower my cement content?	Yes. By lowering the water/cement ratio you can expect higher strengths. You can lower your cement content to lower your strength to meet your specification.
What are the best applications of FR-1?	FR-1 is extensively used as an ingredient in the manufacture of stuccos, bagged concrete, mortars, color hardeners and other cement based materials. Besides water reduction, it can also be used as a retarder for products used in warm weather conditions.

COMPATIBILITY & PRECAUTIONS

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

WARRANTY

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