

## FOR THE REDUCTION OF FALSE-SET PROBLEMS IN VOLUMETRIC MIXERS

### ADVANTAGES

- Fritz-Pak Water Conditioner reduces false-set problems in volumetric mixers.
- Does not delay set of concrete.
- Very easy to store and ship.
- Prepackaged doses in patented water-soluble Fritz-Pak bags are simple to use.

### DESCRIPTION

Water Conditioner is a dry powdered admixture packaged in a patented, ready-to-use, water soluble bag. It is intended for use in volumetric concrete mixers to prevent false-set problems. False-set is a term used to describe the stiffening of the concrete within one minute after water is added. It is not a "hard set". It happens more frequently in volumetric mixers because mixing times are not long enough and don't go past the false-set condition.

### DIRECTIONS

1. Determine the amount of Water Conditioner required. See Recommended Dosage Rate.
2. Remove the protective outer bag, add the inner water-soluble bag and contents into water tank and let dissolve for at least 5 minutes.
3. Add water to concrete mix as per your mix design. Unused water may be left in the tank.

### RECOMMENDED DOSAGE RATE

One 4-oz bag of Water Conditioner will treat 400 gallons (1,500 liters) of water.

### COMPATIBILITY

Water Conditioner is compatible with most concrete admixtures. When used with other admixtures, each one must be dispensed separately into the mix.

### PACKAGING

- 4 oz (113 gram) water soluble bag, 100 bags per case (item #98420)

### FAQs

- Q. Why does false set occur in volumetric mixers but not in regular ready mix concrete?
- A. False set is a rapid hardening of the concrete



shortly after adding water. This false set is not a hard set and in regular ready mix concrete, the extended mixing simply breaks up this false set.

- Q. Why does false set occur?
- A. In the manufacture of cement, gypsum is added to control the set. The gypsum is normally added in the final milling process. If in the final milling the temperature of the cement gets too hot, the gypsum will dehydrate forming anhydrate or hemihydrate (plaster of Paris). When water is added the plaster of Paris hardens very fast and gives the appearance of a false set.
- Q. Why doesn't false set happen all the time?
- A. False set is more common in the summer time and when cement plants are working at full capacity.
- Q. Why it is important to control the false set in volumetric mixers?
- A. Because when the false set appears, it is very difficult for the contractor to work the concrete. If excess water or superplasticizer is added to the concrete to reduce the effects, this can cause a weaker concrete or increased cost of admixtures.

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Q. Will the Water Conditioner affect the true set of concrete?

A. No.

### **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**

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