

Fritz-Pak Mini Delayed Set

Concrete Set Retarder
Use in Concrete Pumps

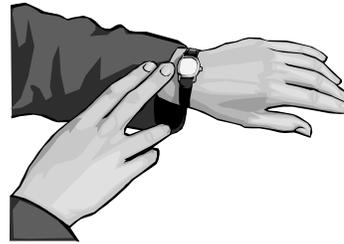
The easy-to-use
concrete retarder.

The affordable
insurance for
avoiding lost
equipment.

Fritz-Pak Corporation
Advanced Concrete Admixtures

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**Does this ever happen to you?
You've already started pumping and..**

The next ready-mix truck is late...

The forms break and you have to wait...

You have to reposition your pump...

You have to wait for QC tests on the concrete...

The pumping job is very slow...

Use Mini Delayed Set!

Mini Delayed Set is a concrete set retarder packed in an easy-to-use water-soluble bag. The product has been extensively tested and used for more than 10 years.

Many ready-mix trucks have been saved by slowing down the concrete set during job-site or on-the-road delays using Mini Delayed Set.

The present brochure is a guide to the use of Mini Delayed Set during concrete pumping and answers questions we have received in the past about its use.

Carry it with you just in case!

Instructions for use of Mini Delayed Set In Concrete Pumps.

Step 1) Decide how much to use. One bag of Mini Delayed Set will slow down the set of one yard of normal concrete mix for about one hour.

Use one bag for most situations. The volume of concrete in the hopper and the boom for most pumps is less than one cubic yard.

Use two bags per yard of concrete to be delayed if any of the following conditions exist:

- a) Pump boom is longer than 40 meters.
- b) Air or concrete temperatures are higher than 90 F (33 C).
- c) The boom pipe is painted a dark color and is in direct sunlight.

Step 2) Remove the outer bag and place the water-soluble inner bag directly into the wet concrete in your hopper. Let the bag dissolve with the agitator running (about one minute).

Step 3) Place the boom directly over the hopper and recirculate the concrete through the boom until all the concrete has been mixed with the retarder (usually about 5-10 minutes).

Step 4) Continue to recirculate the concrete every 5-10 minutes to be sure you do not get segregation of aggregates within the boom. This is especially important for high slump mixes.

Step 5) Return the concrete into the pour when ready. Keep in mind differences of set time between different loads of concrete.

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Commonly Asked Questions.

Where do I get more? Call your Fritz-Pak distributor to order. Call Fritz-Pak toll free at 1-888-746-4116 for your nearest distributor.

Will it harm the concrete? No.

Are there any standards for this material? Yes. It meets the ASTM C-494 Type "D" standards for Set Retarding and Reducing Concrete Admixture. (Contact Fritz-Pak for copies of original certification).

What is it made of? Mini Delayed Set is made of a refined and purified lignosulfonate salt.

When can I add the retarder? As soon as you know that the concrete set will need to be slowed down.

How fast does the bag dissolve? The bag will dissolve in less than one minute.

Can I re-dose? Yes. As long as initial set of the concrete has not started, you can continue to re-dose up to three times.

What is the shelf-life of the product? Bags should be stored in a dry place. Shelf life is about two years.

Will the material discolor the concrete? Not at the recommended dosage.

What happens if I overdose the concrete? Set time will be longer, but set will still occur.

Will it affect the paint or metal on the pump? No.

Can I use Mini Delayed Set to relocate the pump? Yes. However, some pump manufacturers do not recommend moving the pump when it is full of concrete. Check with the pump manufacturer for recommendations.

Can it be added to the concrete in the ready-mix truck? Yes. This was the original design of the product. Use one bag for every yard in the truck. Mix at high speed for 5 minutes.

Is there more literature available? Yes. Copies of the ASTM certification, test data and applications for ready-mix producers are available. Contact Fritz-Pak or your distributor for more information.