

## Frequently Asked Questions

- Q. **What is the shelf-life of the product?**  
A. Bags should be stored in a dry place. Shelf life is about two years.
- Q. **Will the material discolor the concrete?**  
A. Not at the recommended dosage.
- Q. **What happens if I overdose the concrete?**  
A. Set time will be longer, but set will still occur.
- Q. **Will it affect the paint or metal on the pump?**  
A. No.
- Q. **Can I use Mini Delayed Set to relocate the pump?**  
A. Yes. However, some pump manufacturers do not recommend moving the pump when it is full of concrete. Check with the pump manufacturer for recommendations.
- Q. **Can it be added to the concrete in the ready-mix truck?**  
A. 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.
- Q. **Is there more literature available?**  
A. 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.



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## Mini Delayed Set and Concrete Pumping



Affordable insurance for avoiding lost equipment



## When to Use Mini Delayed Set

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...

For all these problems, Mini Delayed set has a solution!

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.



## 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:

- Pump boom is longer than 40 meters.
- Air or concrete temperatures are higher than 90° F (33° 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.

## Frequently Asked Questions

**Q. What's the main use of Mini Delayed Set in concrete pumping?**

**A.** It is added to the concrete in the hopper and recirculated in the boom to eliminate hardening of concrete when it's necessary to stop or delay pumping.

**Q. Where do I get Mini Delayed Set?**

**A.** Call your Fritz-Pak distributor to order. Call Fritz-Pak toll free at 1-888-746-4116 for your nearest distributor.

**Q. Will it harm the concrete?**

**A.** No.

**Q. Are there any standards for this material?**

**A.** 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).

**Q. What is it made of?**

**A.** Mini Delayed Set is made of a refined and purified lignosulfonate salt.

**Q. When can I add the retarder?**

**A.** As soon as you know that the concrete set will need to be slowed down.

**Q. How fast does the bag dissolve?**

**A.** The bag will dissolve in less than one minute.

**Q. Can I re-dose?**

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