

## Mini Delay Set

## Delay Set Admixture

Fritz-Pak Mini Delayed Set is a dry powdered admixture, packaged in a ready-to-use **water soluble bag**. Mini Delayed Set is designed for stabilizing residual concrete wash water or extending the setting time of concrete while improving concrete quality. Wash water or concrete treated with the Mini Delayed Set will be stabilized and may be reused after extended time periods. Concrete produced with stabilized wash water will result in performance characteristics equal to or superior to reference concrete. Mini Delayed Set does not contain calcium chloride, nitrates, nitrites or other potentially corrosive materials and is compatible with all standard concrete admixtures.



No 95050

## MEETS STANDARDS

ASTM C-494 Type D;

AASHTO M-194; CRD C-87

## PACKAGING:

<b>SIZE</b>	8 oz. Bags
<b>BAGS/CASE</b>	60
<b>CASES/PALLET</b>	30

## ADVANTAGES

- Stabilizes concrete wash water for use in next load
- Can be used to recycle the boom in concrete pumps
- Reduces costs associated with chipping out the drum
- Improves the environmental impact of your concrete

## INSTRUCTIONS

### To Delay Concrete

- For one hour of delay, use one bag of Mini Delay Set per every cubic yard of concrete. Use two bags for a two hour delay, or three bags for a three hour delay.
- Add the desired number of water-soluble bags to the truck.
- Mix on high (15 RPM) for 5 to 7 minutes for better performance.
- Redose as needed before concrete returns to original slump.

### To Recirculate a Concrete Pump

- For a one hour delay in pumps with less than a 42 M boom, use one bag of Mini Delay Set. Use two bags for larger pumps or on very hot days.
- Add the desired number of water-soluble bags to the hopper. Agitate the hopper for five to seven minutes to disperse the Mini Delay Set.
- Position the boom so that it will discharge into the hopper. Start pumping.
- Recirculate the concrete this way every 5 to 10 minutes. Redose Mini Delay if you see any signs of the concrete setting.
- Notify the contractor that some of the concrete contains a delay set so they can make adjustments.

### To Stabilize Concrete Washwater

- After discharging all the concrete, add one bag of Mini Delay Set for every 16 hours of water stabilization needed to the drum.
- Add 50 to 75 gallons of water to the drum & mix on high for 2 1/2 minutes. Reverse drum to coat the back side of the fins.
- Mix for an additional 2 1/2 minutes at high speed. (Total of 5 minutes mixing)
- Park the truck & cover the drum opening to prevent water from getting in.
- When batching the next load, subtract the added wash water. Continue with normal mixing procedures.

## INSTRUCTIONS

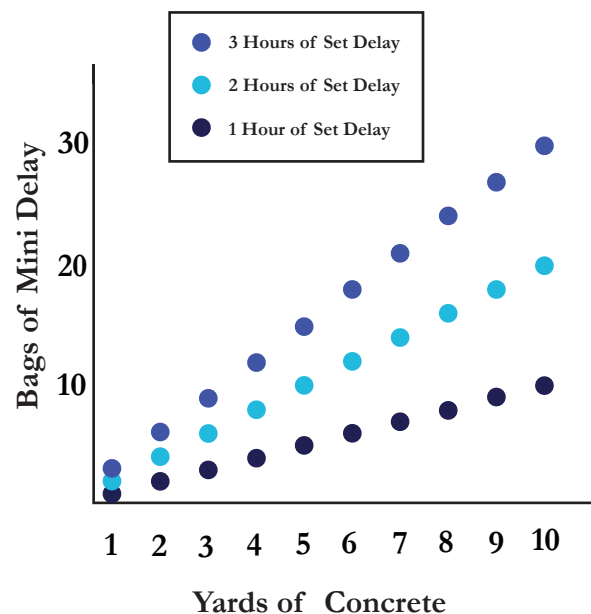
### To Delay Stamped Concrete Projects

- Discharge half of the concrete load normally.
- Add 3 to 5 bags of Mini Delay Set to the concrete still in the truck.
- Mix on high (15 RPM) for 5 to 7 minutes for better performance.
- Place the second half of the concrete load, which is now delayed.
- Start your finishing procedures on the concrete you poured first.
- Use a finishing aid to keep the surface of the retarder concrete moist.

### For Additional Applications

- *In low slump slip form mixes:* Adding Mini Delay to these slow discharged mixed will keep the mix workable & protect the equipment.
- *When there is clean-up discharge allowed at the job site:* Stabilize the wash-water with Mini Delay Set & drive back to the plant or discharge area.
- *Leftover Concrete:* Adding Mini Delay Set to leftover concrete allows you to reuse it and helps protect your drum.

## HOW MANY BAGS OF MINI DELAY?





## FAQ

**Q:** Can I use Mini Delay Set after initial set has already started?

**A:** No, Mini Delay Set must be added to the concrete before setting starts.

**Q:** Will Mini Delay Set affect the strength of the concrete?

**A:** No, Mini Delay Set does impact the strength of concrete in any way.

**Q:** Will Mini Delay Set affect the color of my concrete?

**A:** Mini Delay will not affect the color in gray cement mixes. For white cement mixes, use Fritz-Pak Plaster Delay Set instead.

**Q:** What happens if I add too much Mini Delay Set to my mix?

**A:** If you use more than the desired amount, set will still occur. It will, however take longer.

**Q:** What happens if I mix for less than the recommended amount of time?

**A:** Mini Delayed Set needs to dissolve and be distributed evenly throughout the concrete. Short mixing times or mixing at slow speed may produce concrete with brown spots.

**Q:** How will I know when initial set has started to occur?

**A:** If you notice an increase in concrete temperature or a reduction in slump, concrete has started to set and Mini Delayed Set may not be able to stop the setting process.

## DOSAGE RATES FOR MINI DELAY

TEMPERATURE	DOSE OF MINI DELAY /100 LBS CEMENT	DOSE OF MINI DELAY /1 KG CEMENT
< 60 °F (< 15 °C)	1.0 oz.	0.62 g.
60 - 80 °F (15 - 27 °C)	1.3 oz.	0.83 g.
> 60 °F (> 27 °C)	1.7 oz.	1.03 g.

## COMPATIBILITY

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

## WARRANTY

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of Fritz-Pak Corporation and users should make their own tests to determine the suitability of these products for their own particular purposes. Because of numerous factors affecting results, Fritz-Pak Corporation makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for purpose. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of Fritz-Pak Corporation for claims arising out of breach of warranty, negligence, strict liability, or otherwise are limited to the purchase price of the materials.

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