Frequently Asked Questions

Q. Will Mini Delayed Set harm my color?
A. No, it will not affect color of gray concrete. If using white concrete, use Fritz-Pak White Delay Set.

Q. Can I re-dose?
A. Yes. You can add more Mini Delayed Set if the initial concrete set has not started. You may re-dose up to three times.

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

Q. Is this an approved admixture?
A. Yes, it meets standards for ASTM C-494 Type D, AASHTO M-194, and CRD C-87.

Q. Will it react with other admixtures?
A. No, Mini Delayed Set is compatible with all other admixtures.

Q. Where can I get Mini Delayed Set?
A. It can be specified to your ready mix producer, or purchased from a variety of dealers and distributors. Call Fritz-Pak for assistance.

Q. What is the recommended mix time?
A. Under normal conditions, we recommend mixing for 5 minutes. If you are using a front load discharge truck or a pea gravel mix, you should increase mix time to 10 minutes to ensure complete dispersion.

FRITZ·PAK CONCRETE ADMIXTURES

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Mini Delayed Set Uses in Concrete

The Step Retardation Technique

FRITZ·PAK CONCRETE ADMIXTURES

Mini Delayed Set

What is It?

Mini Delayed Set is a delayed set admixture in powdered form. Like all Fritz-Pak admixtures, it is packaged in a patented, water-soluble inner bag.

When to Use It?

Step Retardation is a specialized technique developed by Decorative Concrete Contractors. Use Mini Delayed Set whenever you need to slow down the set of concrete. Keep it on hand for times when unexpected delays occur, such as when the truck is too early or the job site not ready. Because Mini Delayed Set is designed to be added at the job site, it is ideal for this special application. For More Information: See Fritz-Pak Product Bulletin # 105.

Add bags directly into Ready-Mix trucks

Step Retardation

Purpose: To delay the set of concrete incrementally on the job: this allows the contractor to concentrate skilled finishing work on manageable sections.

Before You Begin: Determine how much concrete will be poured. Decide how many separate areas of set time will best fit your crew size and job size. Calculate how many bags of Mini Delayed Set to use.

How Much to Use? A good rule of thumb is that one 8-ounce bag will retard one yard of concrete for one hour. This is true for a standard mix (5 sacks of cement per yard) at concrete temperatures of 60-80˚ F. For greatest accuracy, take the temperature of the concrete with a sturdy thermometer. It may be very different from the air temperature. Set will be faster at higher temperatures, slower at lower temperatures.

Your Job Site: Only you can determine how many separate segments you want to work on, which may differ according to the size of the job, capabilities of the crew, and temperature and weather conditions. We have an example of a 6-yard pour in three segments. You can adapt from this to your own needs.

Directions

Example, for a 6-yd slab in 3 segments. Set of the first segment is normal. Set time is retarded one hour for the second segment, 2 hours for the third. (Or half-an-hour and one hour if using the lower amounts of Mini Delayed Set).

Step 1: Pour the first section of concrete – one-third of the slab. Mark where it has reached on your form.

Step 2: Add Mini Delayed Set to the remaining 4 yards in the truck. For about one hour of set delay, add 4 bags. For half an hour, add 2 bags. Remove the outer plastic bags, and place the entire inner bags and contents in the mixer while running.

Step 3: Mix for at least 5 minutes to ensure complete admixture dispersion. If you are using a pea gravel mix or a front load discharge truck, you should increase mixing time to 10 minutes. Pour the next 2 yards of concrete, marking where it ends.

Step 4: Add another 2 bags of Mini Delayed Set (one for half-an-hour retardation) to the remaining 2 yards of concrete. Mix for 5 minutes.

Step 5: Pour the final 2 yards of concrete.

Step 6: Begin finishing the first section poured.