



FRITZ-PAK

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STANDARD DELAYED SET

DELAY SET ADMIXTURE

Fritz-Pak Standard Delayed Set slows down the setting time of fresh concrete. One bag delays 4 yards of concrete by up to 1 hour. If you need to delay the load longer, add another bag. Standard Delayed Set is a great product for ready-mixed operators, concrete pumpers, and concrete finishers to keep on hand.



ADVANTAGES

- Extends delivery time
- Improves concrete finishing
- Does not prevent hydration
- Reduces build-up inside the drum



CERTIFICATIONS

ASTM C-494 Type D;
AASHTO M-194; CRD C-87

PACKAGING

ITEM NUMBER	WEIGHT	BAGS PER CASE	CASES PER PALLET
95200	2 pounds	18	24
95250	50 pounds	1	40

DOSAGE

Use 1 bag of Standard Delayed Set to delay per every 4 yards of concrete for 1 hour of set delay. See the dosage chart below for more specific dosage rates based on outside temperature. Concrete temperature or the presence of silica fume may affect dosage rates for Standard Delayed Set. Contact your local Fritz-Pak distributor to learn more.

TEMPERATURE	DOSE OF DELAYED SET PER EVERY 100 LBS OF CEMENT	DOSE OF DELAYED SET PER EVERY 1 KG OF CEMENT
<60°F (<15°C)	1.0 ounces	0.62 grams
60 - 80°F (15 - 27°C)	1.3 ounces	0.83 grams
>80°F (>27°C)	1.7 ounces	1.03 grams



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DIRECTIONS

1. Calculate how much Standard Delayed Set is required.
2. Remove the protective outer bag and add the water-soluble Fritz-Pak inner bag to the concrete mix in the truck.
3. Agitate at high speed (15 revolutions per minute) for 5 to 7 minutes to ensure that the Standard Delayed Set is uniformly dispersed throughout the mix. Inadequate mixing can lead to discoloration.
4. Concrete will gain 2 to 6 inches in slump. Air content may increase slightly, depending on dosage rate and mix design. The concrete will gradually return to the original slump and air content when the set delay is completed.

TIPS AND BEST PRACTICES

Standard Delayed Set should be added to plastic concrete as soon as job site conditions permit. Review cement and fly ash content from batch ticket and check actual concrete temperature. The effectiveness of Standard Delayed Set is reduced as concrete age and temperature increase.

If the delayed concrete must be used earlier than planned, mix concrete at high speed or add additional fresh concrete to compensate for the remaining set delay.

If the delayed concrete must be used later than planned, and concrete has not returned to its original slump, more Standard Delayed Set may be added.

FREQUENTLY ASKED QUESTIONS

QUESTIONS	ANSWERS
What is the shelf life of Standard Delayed Set?	If stored properly, about 1-3 years. If the material ever seems hard or caked, do not use.
Will Standard Delayed Set affect my color?	It will not affect color of gray cement. If using white cement, use Fritz-Pak Plaster Delay Set.
Can I re-dose?	Yes. If the initial concrete set has not started, you may re-dose up to three times.
What happens if I overdose the concrete?	Set time will be longer, but set will still occur.
Will it change the strength of my concrete?	No.
Will it react with other admixtures?	No, it is compatible with other admixtures.
Is it possible to mix for shorter times?	No. Standard Delayed Set must be distributed evenly throughout the concrete. Short mixing times or mixing at slow speed may produce concrete with brown spots.

FREQUENTLY ASKED QUESTIONS (CONTINUED)

QUESTIONS	ANSWERS
The concrete already has a retarder in it; will Standard Delayed Set still work?	No. Standard Delayed Set is only used to delay the initial set.
How do I know when setting has started?	If you notice an increase in concrete temperature or a reduction in slump, concrete has started to set and Standard Delayed Set may not be able to stop the setting process.
What is the difference between Mini and Standard Delayed Set?	The chemical used is exactly the same. The only difference is the size of the bag.

COMPATIBILITY AND STORAGE

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