

SET ACCELERATOR FOR CONCRETE OR MORTAR

ADVANTAGES

- Designed for masons and contractors who use bagged concrete or mortar.
- Speeds up set time by 1-3 hours.
- Non-Chloride set accelerator.
- Provides higher early strength.
- Will not promote steel corrosion or efflorescence in concrete.
- Will not affect colors in concrete.
- Dosage can be increased for faster acceleration.
- Can be easily stored for use as needed.
- Does not require heated warehousing.
- Can be used in all weather.
- Suitable for all types of concrete.
- Excellent for use in polymer modified mixes.
- Easy directions in both English and Spanish.

DESCRIPTION

Fritz-Pak's Mortar Set Accelerator is a dry, white, powdered set accelerator packaged for use in pre-packaged mortar or concrete. It speeds up set times while increasing early compressive strength. Mortar Set Accelerator contains calcium, but no chlorides. Chlorides, such as the commonly used calcium chloride, promote corrosion in steel, promote efflorescence, and disturb color dispersion in colored concrete or plaster.

Unlike other non-chloride accelerators, such as those containing calcium nitrite, Mortar Set Accelerator is not hazardous. No special handling, storage or transportation expense is required.



RECOMMENDED DOSAGE RATE

Start with one bag of Mortar Set Accelerator (5.3 oz) for each sack of concrete or mortar (usually 60-80 lbs). This equals about 1% calcium. Up to 3 bags per sack (about 3% calcium) may be used for faster acceleration. It will not hurt concrete to dose at higher rates, but you will probably not get additional benefit. You will usually get about 1-3 hours reduction in set time depending on temperature.

Factors that affect set acceleration time:

- **Percent of cement in your mix.** The calcium in Mortar Set Accelerator reacts only with cement, so rich mixes will require higher doses.
- **Temperature.** The acceleration effects are faster at lower temperatures. For example, a 2% dose will give about 1 hr set time reduction at 85°F, and 3 hr set time reduction at 40°F.
- **Number of bags used.** Higher doses give faster set times.

To calculate dosage based on precise weight of cement:

- 3 bags of Mortar Set Accelerator per 100 lbs of cement = 1%.

APPLICABLE STANDARDS

ASTM C-494 Types C and E
AASHTO M-154 CRD C-87

PACKAGING

- 5.3 oz Mortar Set Accelerator per bag
- 24 bags/display box
- 6 display boxes per case
- 32 cases per pallet (item #98454)

DIRECTIONS FOR USE

1. Tear or cut open the plastic bag.
2. Pour powdered contents into the wet mortar or concrete mix.
3. Mix thoroughly for 5 minutes to ensure complete dispersion of the Mortar Set Accelerator throughout the mix.
4. Use concrete as you normally would.

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FAQs

- Q. What does Mortar Set Accelerator do?
- A. It speeds up the set time of your mortar or concrete by 1-3 hours.
- Q. What standard does Mortar Set Accelerator meet?
- A. It meets ASTM C-494, Type C and E.
- Q. Will Mortar Set Accelerator change the strength of my concrete?
- A. It will produce higher early strength, and it will increase durability.
- Q. Will Mortar Set Accelerator increase efflorescence in mortar?
- A. No. Efflorescence is promoted by the chlorides in some accelerators. Mortar Set Accelerator does not contain any chlorides, thus it does not promote efflorescence.



An example of efflorescence caused by calcium chloride in concrete.

- Q. Can it be used in polymer modified mixes?
- A. Yes, one bag of Mortar Set Accelerator treats about one bag of polymer modified mix.
- Q. Will Fritz-Pak NCA have any affect on colored concrete?
- A. No. NCA will not cause colors to segregate, the way calcium chloride tends to do in concrete containing integral color.

PRECAUTIONS AND STORAGE

Avoid contact with eyes or skin, flush with water if contact occurs. Store in a dry location, protected from breakage, deterioration and contamination. Mortar Set Accelerator 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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