FRITZ-PAK

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FRITZ-PAK NCA

NON-CHLORIDE ACCELERATOR

Fritz-Pak NCA is a non-chloride accelerator packaged in water-soluble bags for easy addition to concrete ready-mix trucks. It shortens set times while increasing early strength. Fritz-Pak NCA does not contain calcium chloride or any other materials that promote steel corrosion or efflorescence in concrete. Fritz-Pak NCA is not hazardous.

ADVANTAGES

- Does not promote corrosion in steel
- Reduces setting time by up to 2 hours
- Improved efficiency in precast concrete
- Higher early strength

CERTIFICATIONS

ASTM C-494 Type C & E; AASHTO M-194-94

PACKAGING

ITEM NUMBER	WEIGHT	BAGS PER CASE	CASES PER PALLET
98450	5 pounds	8	48
98449	50 pounds	1	40

DOSAGE

Dosage rate varies depending on temperature and the amount of acceleration desired. Increased dosages provide higher acceleration rates. Recommended dosage is 1 to 3 bags per cubic yard of concrete (1 to 3 lbs/cwt or 1 to 3% by weight of cement). Higher dosages may be used for faster acceleration. Dosage percentages are percent of Fritz-Pak NCA by weight of cement.

DIRECTIONS

1. Determine the amount of NCA required. See Dosage section above.

2. Each NCA package is double bagged. Remove the protective outer bag and add the entire water-soluble Fritz-Pak inner bag and contents to the wet concrete mix. The inner bag will dissolve.

3. Mix thoroughly for at least 5 minutes at high speed (15 revolutions per minute) to ensure proper dispersion throughout the mix.

4. When working at low temperatures, users should follow the ACI Guidelines and Specifications for cold weather concreting (ACI 306R-88 and ACI 306.1-90).

FREQUENTLY ASKED QUESTIONS

QUESTIONS	ANSWERS
What other effects will this product have on my concrete?	You may notice a slight increase in slump, since the product has some water reducing properties as well.
Can I use less than one bag per yard?	Yes, you just need to experiment to get the right dosage for your particular needs.
Can I use more than three bags per yard?	There's no point. More than 3 bags per yard will not give any faster acceleration.
Will it change the final strength of concrete?	No. Initial strength will be higher, but ultimate strength will be the same.
Will NCA promote steel corrosion in concrete?	No, unlike the commonly-used calcium chloride, Fritz-Pak NCA will not promote corrosion or efflorescence.
Why does NCA not make the concrete hot in the same way calcium chloride does?	The heat released by calcium chloride when it dissolves in solution is called heat of solution and is not related to the concrete setting up faster. The heat of solution of NCA is much less than the heat of solution of calcium chloride. That is why it is also a safer product.
Does NCA affect colored concrete?	No. NCA will not cause colors to segregate, the way calcium chloride tends to do in concrete containing integral color.

COMPATIBILITY AND STORAGE

NCA is compatible with most concrete and cement admixtures. When using more than one admixture, each product should be dispensed separately. Effectiveness of NCA depends on the proportion of C3A to SO3 in the cement. Higher acceleration will be obtained in cements with ratios greater than 4.0. In general, higher accelerations will be obtained in mixes with Type I, III or white cement. NCA does not contain calcium chloride, nitrates, or other potentially corrosive materials. Store in a dry location, protected from breakage, deterioration, and contamination. NCA 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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