FRITZ-PAK
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NS-7 NON-SHRINK ADMIXTURE

Fritz-Pak NS-7 is a non-shrink grout admixture that allows slow, controlled, in-place expansion of the grout mix prior to hardening. As a grout fluidifier, it will greatly enhance flowability, allowing ease of placement with extended handling and set times. NS-7 significantly reduces water requirements by 10 to 20%. NS-7 does not contain calcium chloride, nitrites, nitrates, or other corrosive materials.

ADVANTAGES

- Increased compressive, shear, and bond strength
- Increased water retention
- Reduced cracks and cold joints
- Improved grout flowability & extended set times

CERTIFICATIONS

There are no applicable standards for this product.

PACKAGING

ITEM NUMBER	WEIGHT	BAGS PER CASE	CASES PER PALLET
97180	1 pound	30	35
97080	42 pounds	1	40

DOSAGE

One pound of Fritz-Pak NS-7 is recommended for each 100 pounds of cementitious material (1% bwc) to provide proper expansion and fluidifying characteristics. Grout temperature, ambient temperatures, or grout mixes containing accelerators, retarders, or special admixtures, such as silica fume, may require dosage rates outside the recommended range. Contact your Fritz-Pak distributor with any questions concerning the dosage rates for this product. We recommend that testing be done to determine the suitability of NS-7 to your grout mixes.

DIRECTIONS

NS-7 should be added in powdered form to the grout mix at the job site, rather than the plant, to ensure no reduction in expansive action and to provide maximum flowability.

1. NS-7 should be used in grouts containing at least six sacks of Type I or Type II portland cement. NS-7 may be added before or after adding water into the mix. If using the 1-lb water soluble bags to prepare the grout, one bag per sack of cement is the recommended dosage.

2. Each NS-7 bag is double-bagged. Remove the protective outer plastic bag and introduce the entire inner water soluble bag and its contents into the mix.

3. Mix thoroughly for at least 5 minutes after adding water.

FREQUENTLY ASKED QUESTIONS

QUESTIONS	ANSWERS
What is the shelf life of NS-7?	If stored properly, about 2-4 years. If the material ever seems hard or caked, do not use it.
How does NS-7 work to produce a non shrink grout?	It contains an ingredient that generates gas and produces expansion. Expansion occurs before set in order to fill all voids and cavities.
Is the expansion destructive?	No. Since the expansion is made by gas, it will not be strong enough to break any forms.
Is there any expansion after setting?	No.
What type of gas is generated?	Hydrogen.
Are there any special guidelines for the application of non-shrink grouts?	Generation of gas starts within 5 minutes of adding water and will continue for approximately 1 and a half hours. The sooner the grout is placed, the greater the expansion it will give. The grout should not sit more than 1 and a half hours before it is used.
Does NS-7 work with calcium aluminate cements?	Yes. It is also effective with fast set cements.
For grouts made with NS-7, do I follow standard concrete testing procedures?	No. Compressive strength needs to be tested using restrained cylinders or molds. If not done this way, compression strengths will be lower. See ASTM C 1107 for further reference.
What are the standards for NS-7?	NS-7 is used to produce non-shrink grouts. It is the grout produced that needs to conform to the specifications. With NS-7 you can produce grouts that conform to ASTM C 1107, Grade “A” Pre-Hardening Volume-Adjusting.
What are the best applications for NS-7?	NS-7 is used to prepare non-shrink grouts used in block filling, hollow core filling, ICF grouting, back filling in tunnels, back filling of pipes and in general for filling voids were low to moderate strength is required.
Can I use NS-7 for block fill material?	Yes.

COMPATIBILITY AND STORAGE

NS-7 is compatible with most concrete and cement admixtures. When using more than one admixture, each product should be dispensed separately. NS-7 does not contain calcium chloride, nitrates, or other potentially corrosive materials. Store in a dry location, protected from breakage, deterioration, and contamination. NS-7 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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