

Air Minus

Air Detraining Admixture

Fritz-Pak Air Minus is a dry, powdered defoamer for use in dry blended materials, or for wet concrete. It decreases foaming and minimizes air entrainment in cement slurries, grouts, concrete, and mortars. It can be used to counteract the air entrainment caused by water reducers and plasticizers. Air Minus contains no chlorides or other hazardous materials, and comes packaged in our signature **water-soluble bags** for easy use.



No 95996

MEETS STANDARDS

There are no applicable standards for this product.

PACKAGING:

SIZE	1.1 lb. Bags
BAGS/CASE	24
CASES/PALLET	42

Also available in 50 lb. bags

ADVANTAGES

- Increased unit weight of concrete
- Allows high-speed mixing of fly ash
- Counteracts air entrainment caused by superplasticizers
- Recommended for production of heavyweight concrete

DOSAGE

Air Plus. One 8-oz bag (227 g) of Air Plus should increase the entrained air content for a full load (8 to 12 cubic yards or 6 to 9 cubic meters) of concrete by ¼ to 1%. Cementitious content, concrete temperature, ambient temperature or concrete mixes containing accelerators, retarders, or special admixtures such as superplasticizers or silica fume may require dosage rates outside the recommended range. Contact your Fritz-Pak distributor with any questions concerning the dosage rates for these products. It is recommended that testing be done to determine the suitability of Air Plus to your mix designs.

DIRECTIONS

1. If entrained air content is below the specified level, determine which Air Plus product is required. (See Recommended Dosage Rate).
2. Each Air Plus package is double bagged. Remove the protective outer bag and add the water-soluble Fritz-Pak inner bag to plastic concrete. The entire inner bag will easily dissolve.
3. Mix at high speed for 5 to 7 minutes to insure that the Air Plus is uniformly dispersed throughout the mix. Improper mixing can result in poor performance.
4. If entrained air content remains below specified levels, more Air Plus may be added.

FREQUENTLY ASKED QUESTIONS

Q. What is the shelf life of Air Minus?

A. If stored properly, about 3-6 years. If the material ever seems hard or caked, do not use it. It will not break up in the mix.

Q. Can Air-Minus counteract high dosages of air entraining admixtures?

A. No. Air entraining admixtures are very strong materials. If concrete is accidentally dosed with high doses of air entrainers, Air Minus may not effectively lower the air content.

Q. What is the mode of action of Air-Minus?

A. Air-Minus reduces the water tension thus reducing the ability of water to form bubbles.

Q. What happens to the air after I add Air-

Minus?

A. As concrete is exposed to the air, the entrained bubbles break and the air is released back to the atmosphere. That is why it is important to mix the concrete after Air-Minus has been added.

Q. What is the main component of Air-Minus?

A. It is a medium chain, branched glycol.

Q. Is Air-Minus soluble in water?

A. No.

Q. Will Air-Minus effect the strength of the concrete?

A. No. It may increase compressive strength.

Q. When is the best time to add Air-Minus?

A. Prior to mixing. This can prevent the formation of bubbles thus reducing entrained air.

Q. Can you knock out all air content with Air Minus?

A. No. The lowest air content you can realistically expect is around 1.0%

Q. Can loads containing Air-Minus be redosed?

A. Yes. However, the air content may or may not decrease further.

Q. Can Air-Minus be used with latex and other polymers?

A. Yes.

Q. Can Air-Minus be used to produce heavyweight concrete, such as for radiation shielding?

A. Yes. It helps to maintain stable air contents and may be more effective than adding heavy weight aggregates or minerals.

Q. Can Air-Minus be used in cement slurries and low viscosity grouts?

A. Yes. Air-Minus is very effective in those products.

Q. Can Air-Minus be used to counteract the air entraining effects of poly carboxylate superplasticizers or high dosages of conventional superplasticizers?

A. Yes.

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COMPATIBILITY & PRECAUTIONS

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